INDEX TO VOLUME 29

1947

OLD SERIES VOLUME 45

AUTHORS

A

PAGE

Abbott, LeRoy C. Orthopaedic Surgery and Its Place in the Department of Surgery in Our Modern Medical Schools. [President's Address, The American Orthopaedic Association] 840

Abbott, LeRoy C.; Schottstaedt, Edwin R.; Saunders, John B. deC. M.; and **Bost, Frederic C.** The Evaluation of Cortical and Cancellous Bone as Grafting Material. A Clinical and Experimental Study 381

Alvik, Ivar. The Treatment of Fractures of the Femur in a Field Hospital 422

Anderson, Margaret, and **Green, William T.** Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. A Method of Predicting the Effect 659

Apley, A. Graham. The Diagnosis of Meniscus Injuries. Some New Clinical Methods 78

Aronsson, Hugo. Osteosynthesis of Intertrochanteric and Pertrochanteric Fractures of the Femur ... 637

Aufranc, Otto E.; Law, W. Alexander; Smith-Petersen, M. N.; and **Larson, Carroll B.** Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty . 41

B

Barr, James O. Secondary Closure of Wounds Associated with Compound Fractures 376

Barr, Joseph S. Ruptured Intervertebral Disc and Sciatic Pain 429

Barr, Joseph S.; Reidy, John A.; Lingley, James R.; and **Gall, Edward A.** The Effect of Roentgen Irradiation on Epiphyseal Growth. II. Experimental Studies upon the Dog 853

Barta, Chester K., and **Ponseti, Ignacio.** Osteoid Osteoma 767

Bateman, James E. A Miniature Galvanic Stimulator 241

Bennett, Granville A. Malignant Neoplasms Originating in Synovial Tissues (Synoviomata). A Study of Thirty-two Specimens Registered at the Army Institute of Pathology During the War-Time Period, 1941-1945 259

Bickel, William H., Jr., and **Broders, Albert C.** Primary Lymphangioma of the Ilium. Report of a Case . 517

Bingham, Robert. Muscle Fibrodystrophy. A Syndrome Causing Chronic Physical Disability 85

Bishop, W. A.; Stauffer, Richard C.; and **Swenson, Alvin L.** Bone Grafts. An End-Result Study of the Healing Time 961

Blair, John E., and **Buchman, Joseph.** The Use of Absorbable Substances to Obliterate Bone Cavities and as Hemostatic Agents in Operative Procedures on Bones and Joints 650

Bluhm, Michael. Modification of the Denis Browne Splint 248

Blumenfeld, Isidoro. Pseudarthrosis of the Long Bones 97

Bost, Frederic C.; Abbott, LeRoy C.; Schottstaedt, Edwin R.; and **Saunders, John B. deC. M.** The Evaluation of Cortical and Cancellous Bone as Grafting Material. A Clinical and Experimental Study 381

Bosworth, David M. Fracture-Dislocation of the Ankle with Fixed Displacement of the Fibula Behind the Tibia 130

Bosworth, David M.; Thompson, Frederick R.; and **Cleveland, Mather.** Intertrochanteric Fractures of the Femur. A Survey of Treatment in Traction and by Internal Fixation 1049

Boyd, H. B., and **George, I. L.** Complications of Fractures of the Neck of the Femur 13

Briggs, Henry, and **Keats, Sidney.** Laminectomy and Foraminotomy with Chip Fusion. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. 328
Observations on Obscure Mechanisms of Nerve-Root Compression with a Diagnostic Tap Test. Report of Two Cases 758

Briggs, Henry; Keats, Sidney; and **Schlesinger, Philip T.** Wedge Osteotomy of the Spine with Bilateral Intervertebral Foraminotomy. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine 1075

Broders, Albert C., and **Bickel, William H.** Primary Lymphangioma of the Ilium. Report of a Case. 517

Bronitsky, Jacob. Chondromalacia Patellae 931

PAGE

Bronson, Robert Glen. A Modification of the Blade-Plate for the Treatment of Intertrochanteric Fractures of the Hip ... 537
Brown, J. Barrett; Cannon, Bradford; Riordan, Daniel C.; and **Graham, Walter C.** Transposition of Fingers in Severe Injuries of the Hand ... 998
Buchman, Joseph, and **Blair, John E.** The Use of Absorbable Substances to Obliterate Bone Cavities and as Hemostatic Agents in Operative Procedures on Bones and Joints ... 650
Bunnell, Sterling. Hand Surgery. Presidential Address ... 824
Burem, Henry S., and **Flanagan, John J.** Reconstruction of Defects of the Tibia and Femur with Apposing Massive Grafts from the Affected Bone ... 587
Bush, Leonard F. The Use of Homogenous Bone Grafts. A Preliminary Report on the Bone Bank ... 620

C

Cannon, Bradford; Riordan, Daniel C.; Graham, Walter C; and **Brown, J. Barrett.** Transposition of Fingers in Severe Injuries of the Hand ... 998
Canty, Thomas John. A Prosthesis for Carpometacarpal Amputations ... 801
Carmack, J. C., and **Hallock, Halford.** Tibiotarsal Arthrodesis after Astragalectomy. A Report of Eight Cases ... 476
Charnley, John. Knee Movement Following Fractures of the Femoral Shaft ... 679
Cleveland, Mather; Bosworth, David M.; and **Thompson, Frederick R.** Intertrochanteric Fractures of the Femur. A Survey of Treatment in Traction and by Internal Fixation ... 1049
Colonna, Paul C. Arthroplasty of the Hip for Congenital Dislocation in Children ... 711
Corn, Oscar, and **Outland, Tom.** The Use of Parallel Grafts and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis. End Results in Forty-one Cases ... 163
Cottrell, George W. Renal Osteitis Fibrosa Superimposed on Senile Osteoporosis. Report of a Case Without Parathyroid Hyperplasia and With Ureteritis Cystica ... 491
Coughlin, Edward J., Jr., and **Ray, R. Beverley.** Osteochondritis Dissecans of the Talus ... 697

D

Davis, Arthur G. Symposium on the Intervertebral Disc. Introduction ... 424
Dawson, George R. A Handy Pin Inserter ... 526
A Motor-Driven Screw Holder and Screw Driver ... 527
Day, A. Jackson. The Treatment of Injuries to the Tarsal Navicular ... 359
Decker, Alfred, and **Eckert, Charles.** Pathological Studies of Intervertebral Discs ... 447
DePalma, Anthony F. Calcareous Deposits in Soft Tissues about the Proximal Interphalangeal Joint of the Index Finger. Report of a Case ... 808
Dickson, Douglas D.; Luckey, Clarence A.; and **Logan, Noble H.** Infantile Cortical Hyperostosis ... 224
Dickson, James A. The High Geometric Osteotomy, with Rotation and Bone Graft, for Ununited Fractures of the Neck of the Femur. A Preliminary Report ... 1005
Dickson, James A., and **Willien, Leon J.** Arthrodesis of the Hip Joint in Degenerative Arthritis. A Modified One-Stage Procedure with Internal Fixation ... 687
Donald, James G., and **Fitts, William T., Jr.** March Fractures. A Study with Special Reference to Etiological Factors ... 297
Downing, Harold F., and **Vinke, Theodore H.** Salmonella Infection Involving the Knee Joint. Report of a Case ... 232
Dudgeon, Howard R., Jr. Rupture of the Popliteal Fascia ... 522
Duffy, F. Paul, and **Vinke, Theodore H.** Chondrodystrophia Calcificans Congenita. Report of Two Cases ... 509

E

Ecker, Arthur, and **Massie, William K.** Internal Fixation of Bone and Neurorrhaphy. Combined Lesions of Radial Nerves and Humerus Fractures ... 977
Eckert, Charles, and **Decker, Alfred.** Pathological Studies of Intervertebral Discs ... 447

F

Ferguson, Albert B., Jr. Calcified Medullary Defects in Bone ... 598
Fitts, William T., Jr., and **Donald, James G.** March Fractures. A Study with Special Reference to Etiological Factors ... 297
Flanagan, John J., and **Burem, Henry S.** Reconstruction of Defects of the Tibia and Femur with Apposing Massive Grafts from the Affected Bone ... 587
Fletcher, Gilbert H. Backward Displacement of Fifth Lumbar Vertebra in Degenerative Disc Disease. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae ... 1019

PAGE

Fowler, Samuel B. Mobilization of Metacarpophalangeal Joints. Arthroplasty and Capsulotomy 193
Frantz, Charles H., and **Hodgen, John T.** Subperiosteal Giant-Cell Tumor. Report of a Case 781
Friedman, Morris S. Xanthoma of the Achilles Tendon 760

G

Gall, Edward A.; Barr, Joseph S.; Reidy, John A.; and **Lingley, James R.** The Effect of Roentgen Irradiation on Epiphyseal Growth. II. Experimental Studies upon the Dog 853
Garceau, George J., and **Manning, K. R.** Transposition of the Anterior Tibial Tendon in the Treatment of Recurrent Congenital Club-Foot 1044
Gay, James R., and **Love, J. Grafton.** Diagnosis and Treatment of Tardy Paralysis of the Ulnar Nerve. Based on a Study of 100 Cases 1087
Gellman, Moses. Arthrodesis of the Elbow. A Preliminary Report of a New Operation 850
George, I. L., and **Boyd, H. B.** Complications of Fractures of the Neck of the Femur 13
Gill, A. Bruce. Arthrodesis of the Hip for Ununited Fractures 305
Gill, Gerald G. An Improved Rotating Stirrup for Use in the Treatment of Fractures of the Femur with Skeletal Traction 531
Gill, Joseph H., and **Lucas, Leo S.** Humerus Varus Following Birth Injury to the Proximal Humeral Epiphysis 367
Graham, Walter C. Flexor-Tendon Grafts to the Finger and Thumb 553
Graham, Walter C.; Brown, J. Barrett; Cannon, Bradford; and **Riordan, Daniel C.** Transposition of Fingers in Severe Injuries of the Hand 998
Green, William T., and **Anderson, Margaret.** Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. A Method of Predicting the Effect 659

H

Haboush, Edward J., and **Martin, Robert V.** Painful Interdigital Clavus (Soft Corn). Treatment by Skin-Plastic Operation 756
Hallock, Halford, and **Carmack, J. C.** Tibiotarsal Arthrodesis after Astragalectomy. A Report of Eight Cases 476
Hawkins, F. B.; Townley, C. O.; and **Hedrick, Donald W.** Primary Arterial Injury Complicating Extremity Fractures 738
Heath, Arthur L., and **Schwartz, R. Plato.** The Definition of Human Locomotion on the Basis of Measurement. With Description of Oscillographic Method 203
Heath, R. D., and **McCarroll, H. R.** Tuberculosis of the Hip in Children. Certain Roentgenographic Manifestations, Secondary Changes in the Extremity, and Some Suggestions for a Program of Therapy 889
Hedrick, Donald W.; Hawkins, F. B.; and **Townley, C. O.** Primary Arterial Injury Complicating Extremity Fractures 738
Herzmark, Maurice H. Floor Pad for Foot-Exercising 1098
Heyman, Clarence H. Operative Treatment of Paralytic Genu Recurvatum 644
Hindenach, J. C. R. Recurrent Posterior Dislocation of the Shoulder 582
Hodgen, John T., and **Frantz, Charles H.** Subperiosteal Giant-Cell Tumor. Report of a Case 781

I

Inman, Verne T. Functional Aspects of the Abductor Muscles of the Hip 607
Inman, Verne T., and **Saunders, J. B. deC. M.** Anatomicophysiological Aspects of Injuries to the Intervertebral Disc 461

J

Jaslow, Irwin A. Blade-Plate Fixation. Report of a Case 814
Jesse, Claran H. *Cryptococcus neoformans* Infection (Torulosis) of Bone. Report of a Case 810
Joffe, Herman; Joseph, Norman R.; and **Reed, C. I.** Autonomic Control of Synovial-Fluid Reaction. 370
Joseph, Norman R.; Reed, C. I.; and **Joffe, Herman.** Autonomic Control of Synovial-Fluid Reaction. 370

K

Keats, Sidney, and **Briggs, Henry.** Laminectomy and Foraminotomy with Chip Fusion. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis 328
Observations on Obscure Mechanisms of Nerve-Root Compression with a Diagnostic Tap Test. Report of Two Cases 758

PAGE

Keats, Sidney; Schlesinger, Philip T.; and Briggs, Henry. Wedge Osteotomy of the Spine with Bilateral Intervertebral Foraminotomy. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine ... 1075

Kestler, Otto C. Unclassified Premature Cessation of Epiphyseal Growth about the Knee Joint ... 788

Key, J. Albert. Education and Certification of Orthopaedic Surgeons in the United States. [Presidential Address, The American Orthopaedic Association.] ... 1

Klinefelter, Edmund W. Ossifications Associated with Chronic Strain of the Tibial Collateral Ligament from Roller-Skating ... 237

Klopsteg, Paul E. The Functions and Activities of the Committee on Artificial Limbs of the National Research Council. A Preliminary Report ... 538

Krauss, Ruth F. Osteomyelitis Caused by *Salmonella typhimurium* ... 227

Krida, Arthur. The Whitman Reconstruction Operation for Complications of Fracture of the Neck of the Femur ... 310

Kulowski, J., and Rickett, H. W. The Relation of Discoid Meniscus to Cyst Formation and Joint Mechanics ... 990

L

Lacroix, Pierre. Organizers and the Growth of Bone ... 292

Larson, Carroll B.; Aufranc, Otto E.; Law, W. Alexander; and Smith-Petersen, M. N. Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty ... 41

Law, W. Alexander; Smith-Petersen, M. N.; Larson, Carroll B.; and Aufranc, Otto E. Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty ... 41

Lehmann, Otto, and Rizzo, Peter-Cyrus. The "Latch" Graft: A Combination of Inlay and Intramedullary Graft Which Is Self-Retaining ... 354

Lenhard, Raymond E. End-Result Study of the Intervertebral Disc ... 425

Leveuf, Jacques. Primary Congenital Subluxation of the Hip ... 149

Lingley, James R.; Gall, Edward A.; Barr, Joseph S.; and Reidy, John A. The Effect of Roentgen Irradiation on Epiphyseal Growth. II. Experimental Studies upon the Dog ... 853

Littler, J. William. Metacarpal Reconstruction ... 723

Logan, Noble H.; Dickson, Douglas D.; and Luckey, Clarence A. Infantile Cortical Hyperostosis ... 224

Love, J. Grafton. The Disc Factor in Low-Back Pain With or Without Sciatica ... 438

Love, J. Grafton, and Gay, James R. Diagnosis and Treatment of Tardy Paralysis of the Ulnar Nerve. Based on a Study of 100 Cases ... 1087

Lucas, Leo S., and Gill, Joseph H. Humerus Varus Following Birth Injury to the Proximal Humeral Epiphysis ... 367

Luckey, C. A., and McPherson, S. R. Tendinous Reconstruction of the Hand Following Irreparable Injury to the Peripheral Nerves and Brachial Plexus ... 560

Luckey, Clarence A.; Logan, Noble H.; and Dickson, Douglas D. Infantile Cortical Hyperostosis ... 224

M

McCarroll, H. R., and Heath, R. D. Tuberculosis of the Hip in Children. Certain Roentgenographic Manifestations, Secondary Changes in the Extremity, and Some Suggestions for a Program of Therapy ... 889

Mackenzie, William. Painful, Non-Suppurative, Localized Sclerosis of the Long Bones. With a Report of Two Cases ... 49

McPherson, S. R., and Luckey, C. A. Tendinous Reconstruction of the Hand Following Irreparable Injury to the Peripheral Nerves and Brachial Plexus ... 560

Manning, K. R., and Garceau, George J. Transposition of the Anterior Tibial Tendon in the Treatment of Recurrent Congenital Club-Foot ... 1044

Marcy, George H. The Posterolateral Approach to the Femur ... 676

Martin, Robert V., and Haboush, Edward J. Painful Interdigital Clavus (Soft Corn). Treatment by Skin-Plastic Operation ... 756

Massie, William K., and Ecker, Arthur. Internal Fixation of Bone and Neurorrhaphy. Combined Lesions of Radial Nerves and Humerus Fractures ... 977

Mellen, Richard H., and Phalen, George S. Arthroplasty of the Elbow by Replacement of the Distal Portion of the Humerus with an Acrylic Prosthesis ... 348

Miller, Richard C., and Phalen, George S. The Repair of Defects of the Radius with Fibular Bone Grafts ... 629

The Transfer of Wrist Extensor Muscles to Restore or Reinforce Flexion Power of the Fingers and Opposition of the Thumb ... 993

Moore, John Royal. Osteotomy-Osteoclasis. A Method for Correcting Long-Bone Deformities ... 119

PAGE

Mumford, E. B. Congenital Dislocation of the Patella. Case Report with History of Four Generations. 1083
Murphy, Frank G. Intramedullary Onlay Grafts for Defects Resulting from Shattering Fractures... 1068

O

Outland, Tom and **Corn, Oscar.** The Use of Parallel Grafts and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis. End Results in Forty-one Cases..... 163

P

Parnall, Edward. A Simple Leg Holder for Hip-Nailing Operations..... 536
Pease, Charles N. Fusion of the Hip in Children. The Chandler Method..... 874
Peterson, Leonard T. Fixation of Bones by Plates and Screws..... 335
Phalen, George S., and **Mellen, Richard H.** Arthroplasty of the Elbow by Replacement of the Distal Portion of the Humerus with an Acrylic Prosthesis..... 348
Phalen, George S., and **Miller, Richard C.** The Repair of Defects of the Radius with Fibular Bone Grafts..... 629
The Transfer of Wrist Extensor Muscles to Restore or Reinforce Flexion Power of the Fingers and Opposition of the Thumb..... 993
Phemister, D. B., and **Sherman, Mary S.** The Pathology of Ununited Fractures of the Neck of the Femur..... 19
Phemister, Dallas B. Treatment of Ununited Fractures by Onlay Bone Grafts without Screw or Tie Fixation and without Breaking down of the Fibrous Union..... 946
Platt, Harry. Survival in Bone Sarcoma..... 6
Pohl, John F. The Peripheral Disease of Poliomyelitis..... 1027
Polesky, Fred A. Modification of Cast Spreader..... 249
Ponseti, Ignacio, and **Barta, Chester K.** Osteoid Osteoma..... 767
Powell, Norborne B. Osteitis Pubis..... 785
Puig Guri, José. The Formation and Significance of Vertebral Ankylosis in Tuberculous Spines..... 136

R

Rapp, Ira H., and **Winkler, Harry.** Ununited Epiphysis of the Ischium. Report of a Case..... 234
Ray, R. Beverley, and **Coughlin, Edward J., Jr.** Osteochondritis Dissecans of the Talus..... 697
Reed, C. I.; Joffe, Herman; and **Joseph, Norman R.** Autonomic Control of Synovial-Fluid Reaction... 370
Reidy, John A.; Lingley, James R.; Gall, Edward A.; and **Barr, Joseph S.** The Effect of Roentgen Irradiation on Epiphyseal Growth. II. Experimental Studies upon the Dog..... 853
Reiss, George I. An Instrument for Use in the Bankart Operation for Recurrent Dislocation of the Shoulder..... 812
Richardson, J. L. Renal Rickets. Report of a Case..... 503
Rickett, H. W., and **Kulowski, J.** The Relation of Discoid Meniscus to Cyst Formation and Joint Mechanics..... 990
Riordan, Daniel C.; Graham, Walter C.; Brown, J. Barrett; and **Cannon, Bradford.** Transposition of Fingers in Severe Injuries of the Hand..... 998
Rizzo, Peter-Cyrus. An Efficient Dual-Purpose Retractor..... 240
Rizzo, Peter-Cyrus, and **Lehmann, Otto.** The "Latch" Graft: A Combination of Inlay and Intramedullary Graft Which Is Self-Retaining..... 354
Robertson, Ross, and **Stark, W. J.** Diagnosis and Treatment of Recurrent Dislocation of the Shoulder. 797
Rogers, S. Perry. Slotted Jaw Forceps for Bone-Plating..... 1100
Rose, Robert M. A Method of Offsetting the External Rotation of Limbs in Traction..... 535
Ross, W. T. Osteochondritis of the Supratrochlear Septum. Report of a Case..... 514
Rowen, Ralph E. Roentgenographic Features of Metastases of a Retinoblastoma to the Long Bones. Report of a Case..... 805

S

Sarpyener, Münir A. Spina Bifida Aperta and Congenital Stricture of the Spinal Canal..... 817
Saunders, J. B. deC. M., and **Inman, Verne T.** Anatomicophysiological Aspects of Injuries to the Intervertebral Disc..... 461
Saunders, John B. deC. M.; Bost, Frederic C.; Abbott, LeRoy C.; and **Schottstaedt, Edwin R.** The Evaluation of Cortical and Cancellous Bone as Grafting Material. A Clinical and Experimental Study..... 381
Saunders, R. L. deC. H., and **Young, E. Gordon.** Absorption of Trypan Blue from the Human Knee Joint..... 301

PAGE

Schlesinger, Philip T.; Briggs, Henry; and **Keats, Sidney.** Wedge Osteotomy of the Spine with Bilateral Intervertebral Foraminotomy. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine ... 1075

Schottstaedt, Edwin R.; Saunders, John B. deC. M.; Bost, Frederic C.; and **Abbott, LeRoy C.** The Evaluation of Cortical and Cancellous Bone as Grafting Material. A Clinical and Experimental Study ... 381

Schulze, Hartwin A. An Improved Skin-Traction Technique for the Fingers ... 222

Schwartz, R. Plato, and **Heath, Arthur L.** The Definition of Human Locomotion on the Basis of Measurement. With Description of Oscillographic Method ... 203

Sherman, Mary S. Osteoid Osteoma Associated with Changes in Adjacent Joint. Report of Two Cases ... 483

Osteoid Osteoma. Review of the Literature and Report of Thirty Cases ... 918

Sherman, Mary S., and **Phemister, D. B.** The Pathology of Ununited Fractures of the Neck of the Femur ... 19

Skovron, Michael. An Improved Retractor for Intervertebral-Disc Surgery ... 247

Smith-Petersen, M. N.; Larson, Carroll B.; Aufranc, Otto E.; and **Law, W. Alexander.** Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty ... 41

Snyder, Clarence H. A Sling for Use in Legg-Perthes Disease ... 524

Sorrel, Etienne, and **Sorrel-Dejerine, Madame.** Immobilization with Bone Grafts in the Treatment of Tuberculosis of the Joints and Pott's Disease ... 603

Sorrel-Dejerine, Madame, and **Sorrel, Etienne.** Immobilization with Bone Grafts in the Treatment of Tuberculosis of the Joints and Pott's Disease ... 603

Stanger, J. Kenneth. Fracture-Dislocation of the Thoracolumbar Spine. With Special Reference to Reduction by Open and Closed Operations ... 107

Stark, W. J., and **Robertson, Ross.** Diagnosis and Treatment of Recurrent Dislocation of the Shoulder ... 797

Stauffer, Richard C.; Swenson, Alvin L.; and **Bishop, W. A., Jr.** Bone Grafts. An End-Result Study of the Healing Time ... 961

Steindler, Arthur. An Analysis and Differentiation of Low-Back Pain in Relation to the Disc Factor ... 455

The Newer Pathological and Physiological Concepts of Anterior Poliomyelitis and Their Clinical Interpretation ... 59

Stewart, Steele F. Pre-Employment Examinations of the Back ... 215

Swenson, Alvin L.; Bishop, W. A., Jr.; and **Stauffer, Richard C.** Bone Grafts. An End-Result Study of the Healing Time ... 961

Sylvén, Bengt. Cartilage and Chondroitin Sulphate. I. The Physiological Role of Chondroitin Sulphate in Cartilage ... 745

Cartilage and Chondroitin Sulphate. II. Chondroitin Sulphate and the Physiological Ossification of Cartilage ... 973

T

Thomas, Goronwy E. Idiopathic Scoliosis. A Method of Correction ... 907

Thompson, Frederick R.; Cleveland, Mather; and **Bosworth, David M.** Intertrochanteric Fractures of the Femur. A Survey of Treatment in Traction and by Internal Fixation ... 1049

Townley, C. O.; Hedrick, Donald W.; and **Hawkins, F. B.** Primary Arterial Injury Complicating Extremity Fractures ... 738

V

Vasko, John R. An Operation for Old Unreduced Bennett's Fracture ... 753

Vinke, Theodore H., and **Downing, Harold F.** Salmonella Infection Involving the Knee Joint. Report of a Case ... 232

Vinke, Theodore H., and **Duffy, F. Paul.** Chondrodystrophia Calcificans Congenita. Report of Two Cases ... 509

W

Wallace, George T. Some Surgical Aspects of Osteoid Osteoma ... 777

Wallace, George T., and **West, William J.** Fascial Repair for Poliomyelitic Paralysis of the Abdominal Wall in Adults ... 1031

West, William J., and **Wallace, George T.** Fascial Repair for Poliomyelitic Paralysis of the Abdominal Wall in Adults ... 1031

Whitman, Royal. A Review of the Evolution of the Orthopaedic Branch of Surgery in New York City ... 250

Willien, Leon J., and **Dickson, James A.** Arthrodesis of the Hip Joint in Degenerative Arthritis. A Modified One-Stage Procedure with Internal Fixation ... 687

PAGE

Wilson, Philip D. Trochanteric Arthroplasty in the Treatment of Ununited Fractures of the Neck of the Femur . . . 313
Winkler, Harry, and **Rapp, Ira H.** Ununited Epiphysis of the Ischium. Report of a Case . . . 234
Wolbach, S. Burt. Vitamin-A Deficiency and Excess in Relation to Skeletal Growth . . . 171
Woodhall, Barnes. Discussion: Symposium on the Intervertebral Disc.
A. Sensory Patterns in the Localization of Disc Lesions . . . 470
B. Preliminary Appraisal of Army Results . . . 474
Wright, Louis T. Oblique Subcervical (Reverse Intertrochanteric) Fractures of the Femur . . . 707

Y

Yachnin, Samuel C. External Rotation of the Leg in Poliomyelitis . . . 415
Young, E. Gordon, and **Saunders, R. L. deC. H.** Absorption of Trypan Blue from the Human Knee Joint . . . 301

SUBJECT INDEX

A

Abdominal Wall in Adults, Fascial Repair for Poliomyelitic Paralysis of the. George T. Wallace and William J. West . . . 1031
Abductor Muscles of the Hip, Functional Aspects of the. Verne T. Inman . . . 607
Absorbable Substances, The Use of, to Obliterate Bone Cavities and as Hemostatic Agents in Operative Procedures on Bones and Joints. Joseph Buchman and John E. Blair . . . 650
Absorption of Trypan Blue from the Human Knee Joint. R. L. deC. H. Saunders and E. Gordon Young 301
[Acetabulum.] Arthroplasty of the Hip for Congenital Dislocation in Children. Paul C. Colonna . . . 711
[Acetabulum.] Functional Aspects of the Abductor Muscles of the Hip. Verne T. Inman . . . 607
[Acetabulum.] Primary Congenital Subluxation of the Hip. Jacques Leveuf . . . 149
[Acetabulum.] Trochanteric Arthroplasty in the Treatment of Ununited Fractures of the Neck of the Femur. [Symposium.] Philip D. Wilson . . . 313
Achilles Tendon, Xanthoma of the. Morris S. Friedman . . . 760
[Achondroplasia.] Chondrodystrophia Calcificans Congenita. Report of Two Cases. Theodore H. Vinke and F. Paul Duffy . . . 509
[Acromion.] Diagnosis and Treatment of Recurrent Dislocation of the Shoulder. Ross Robertson and W. J. Stark . . . 797
Acrylic Prosthesis, Arthroplasty of the Elbow by Replacement of the Distal Portion of the Humerus with an. Richard H. Mellen and George S. Phalen . . . 348
Activities, The Functions and, of the Committee on Artificial Limbs of the National Research Council. A Preliminary Report. Paul E. Klopsteg . . . 538
Adults, Fascial Repair for Poliomyelitic Paralysis of the Abdominal Wall in. George T. Wallace and William J. West . . . 1031
Agents, Hemostatic, in Operative Procedures on Bones and Joints, The Uses of Absorbable Substances to Obliterate Bone Cavities and as. Joseph Buchman and John E. Blair . . . 650
[Albright's Disease.] Renal Osteitis Fibrosa Superimposed on Senile Osteoporosis. Report of a Case Without Parathyroid Hyperplasia and With Ureteritis Cystica. George W. Cottrell . . . 491
[Alkaline Phosphatase.] Cartilage and Chondroitin Sulphate. II. Chondroitin Sulphate and the Physiological Ossification of Cartilage. Bengt Sylvén . . . 973
[Allergy.] Calcareous Deposits in Soft Tissues about the Proximal Interphalangeal Joint of the Index Finger. Report of a Case. Anthony F. DePalma . . . 808
American Academy of Allergy, The . . . 1101

PAGE

American Academy of Orthopaedic Surgeons, The ... 255, 544, 1101
American Board of Orthopaedic Surgery, The ... 254, 544, 825, 1101
American Book Center for War Devastated Libraries, The ... 544
American Occupational Therapy Association ... 1101
American Orthopaedic Association, The ... 542, 1102
[American Orthopaedic Association, The. Presidential Address.] Education and Certification of Orthopaedic Surgeons in the United States. J. Albert Key ... 1
[American Orthopaedic Association, The. President's Address.] Orthopaedic Surgery and Its Place in the Department of Surgery in Our Modern Medical Schools. LeRoy C. Abbott ... 840
[American Orthopaedic Association, The.] Symposium on the Complications of Old Fractures of the Neck of the Femur and Their Treatment.
Boyd, H. B., and George, I. L. ... 13
Gill, A. Bruce ... 305
Krida, Arthur ... 310
Sherman, Mary S., and Phemister, D. B. ... 19
Smith-Petersen, M. N.; Larson, Carroll B.; Aufranc, Otto E.; and Law, W. Alexander ... 41
Wilson, Philip D. ... 313
Discussion
Badgley, Carl E. ... 326
Blount, Walter P. ... 822
Colonna, Paul C. ... 327
Platt, Harry ... 326
[American Orthopaedic Association, The.] Symposium on the Intervertebral Disc.
Barr, Joseph S. ... 429
Davis, Arthur G. ... 424
Eckert, Charles, and Decker, Alfred ... 447
Inman, Verne T., and Saunders, J. B. deC. M. ... 461
Lenhard, Raymond E. ... 425
Love, J. Grafton ... 438
Steindler, Arthur ... 455
Discussion
Hallock, Halford ... 475
Mixter, William Jason ... 468
Willis, Theodore A. ... 469
Woodhall, Barnes ... 470
American Rheumatism Association, The ... 544
American Society for Surgery of the Hand ... 823, 1102
[American Society for Surgery of the Hand.] Presidential Address. Sterling Bunnell ... 824
Amputations, Carpometacarpal, A Prosthesis for. Thomas John Canty ... 801
Analysis and Differentiation of Low-Back Pain in Relation to the Disc Factor, An. [Symposium.] Arthur Steindler ... 455
Anatomicophysiological Aspects of Injuries to the Intervertebral Disc. [Symposium.] Verne T. Inman and J. B. deC. M. Saunders ... 461
Ankle, Fracture-Dislocation of the, with Fixed Displacement of the Fibula Behind the Tibia. David M. Bosworth ... 130
[Ankle.] Osteochondritis Dissecans of the Talus. R. Beverley Ray and Edward J. Coughlin, Jr. ... 697
[Ankle.] Tibiotarsal Arthrodesis after Astragalectomy. A Report of Eight Cases. J. C. Carmack and Halford Hallock ... 476
Ankylosing Arthritis of the Spine, Correction of Flexion Deformity in Five Cases of. Wedge Osteotomy of the Spine with Bilateral Intervetebral Foraminotomy. Henry Briggs, Sidney Keats, and Philip T. Schlesinger ... 1075
[Ankylosis.] Arthrodesis of the Hip for Ununited Fractures. [Symposium.] A. Bruce Gill ... 305
Ankylosis, Vertebral, in Tuberculous Spines, The Formation and Significance of. José Puig Guri ... 136
Annulus Fibrosus. *See* **Intervertebral Disc.**
[Anomalies of the Spine.] Pre-Employment Examinations of the Back. Steele F. Stewart ... 215
["Antalgic" Gait.] Functional Aspects of the Abductor Muscles of the Hip. Verne T. Inman ... 607
[Anterior Horn Cells.] The Newer Pathological and Physiological Concepts of Anterior Poliomyelitis and Their Clinical Interpretation. Arthur Steindler ... 59
[Anterior Horn Cells.] The Peripheral Disease of Poliomyelitis. John F. Pohl ... 1027
Anterior Poliomyelitis, The Newer Pathological and Physiological Concepts of, and Their Clinical Interpretation. Arthur Steindler ... 59

PAGE

Anterior Tibial Tendon, Transposition of the, in the Treatment of Recurrent Congenital Club-Foot. George J. Garceau and K. R. Manning ... 1044

Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae, The Significance of the Difference in. Backward Displacement of Fifth Lumbar Vertebra in Degenerative Disc Disease. Gilbert H. Fletcher ... 1019

Apparatus and Appliances

Floor Pad for Foot-Exercising. Maurice H. Herzmark ... 1098

Improved Rotating Stirrup for Use in the Treatment of Fractures of the Femur with Skeletal Traction, An. Gerald G. Gill ... 531

Improved Skin-Traction Technique for the Fingers, An. Hartwin A. Schulze ... 222

Miniature Galvanic Stimulator, A. James E. Bateman ... 241

Modification of the Blade-Plate for the Treatment of Intertrochanteric Fractures of the Hip, A. Robert Glen Bronson ... 537

Modification of the Denis Browne Splint. Michael Bluhm ... 248

Prosthesis for Carpometacarpal Amputations, A. Thomas John Canty ... 801

Simple Leg Holder for Hip-Nailing Operations, A. Edward Parnall ... 536

Sling for Use in Legg-Perthes Disease, A. Clarence H. Snyder ... 524

Slotted Jaw Forceps for Bone-Plating. S. Perry Rogers ... 1100

Treatment of Fractures of the Femur in a Field Hospital, The. Ivar Alvik ... 422

Apposing Massive Grafts from the Affected Bone, Reconstruction of Defects of the Tibia and Femur with. John J. Flanagan and Henry S. Burem ... 587

Appraisal, Preliminary, of Army Results. (Discussion: Symposium on the Intervertebral Disc.) Barnes Woodhall ... 474

Approach, The Posterolateral, to the Femur. George H. Marcy ... 676

[**Arm Amputations.**] A Prosthesis for Carpometacarpal Amputations. Thomas John Canty ... 801

[**Arm.**] Arthroplasty of the Elbow by Replacement of the Distal Portion of the Humerus with an Acrylic Prosthesis. Richard H. Mellen and George S. Phalen ... 348

[**Arm.**] Humerus Varus Following Birth Injury to the Proximal Humeral Epiphysis. Leo S. Lucas and Joseph H. Gill ... 367

[**Arm.**] The Repair of Defects of the Radius with Fibular Bone Grafts. Richard C. Miller and George S. Phalen ... 629

Army Institute of Pathology, A Study of Thirty-two Specimens Registered at the, During the War-Time Period, 1941–1945. Malignant Neoplasms Originating in Synovial Tissues (Synoviomata). Granville A. Bennett ... 259

Arrest, Epiphyseal, Experiences with, in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. A Method of Predicting the Effect. William T. Green and Margaret Anderson ... 659

[**Arrest of Epiphyseal Growth.**] Unclassified Premature Cessation of Epiphyseal Growth about the Knee Joint. Otto C. Kestler ... 788

Arterial Injury, Primary, Complicating Extremity Fractures. Donald W. Hedrick, F. B. Hawkins, and C. O. Townley ... 738

[**Arthritic Changes** following Bony Union.] Complications of Fractures of the Neck of the Femur. [Symposium.] H. B. Boyd and I. L. George ... 13

Arthritis, Ankylosing, of the Spine, Correction of Flexion Deformity in Five Cases of. Wedge Osteotomy of the Spine with Bilateral Intervertebral Foraminotomy. Henry Briggs, Sidney Keats, and Philip T. Schlesinger ... 1075

Arthritis, Degenerative, Arthrodesis of the Hip Joint in. A Modified One-Stage Procedure with Internal Fixation. James A. Dickson and Leon J. Willien ... 687

[**Arthritis, Degenerative.**] The Pathology of Ununited Fractures of the Neck of the Femur. [Symposium.] Mary S. Sherman and D. B. Phemister ... 19

[**Arthritis, Traumatic.**] The Treatment of Injuries to the Tarsal Navicular. A. Jackson Day ... 359

Arthrodesis of the Elbow. A Preliminary Report of a New Operation. Moses Gellman ... 850

Arthrodesis of the Hip Joint in Degenerative Arthritis. A Modified One-Stage Procedure with Internal Fixation. James A. Dickson and Leon J. Willien ... 687

Arthrodesis of the Hip for Ununited Fractures. [Symposium.] A. Bruce Gill ... 305

[**Arthrodesis.**] Immobilization with Bone Grafts in the Treatment of Tuberculosis of the Joints and Pott's Disease. Etienne Sorrel and Madame Sorrel-Dejerine ... 603

Arthrodesis, Tibiotarsal, after Astragalectomy. A Report of Eight Cases. J. C. Carmack and Halford Hallock ... 476

[**Arthrodesis.**] The Treatment of Injuries to the Tarsal Navicular. A. Jackson Day ... 359

PAGE

[**Arthrodesis.**] Tuberculosis of the Hip in Children. Certain Roentgenographic Manifestations, Secondary Changes in the Extremity, and Some Suggestions for a Program of Therapy. H. R. McCarroll and R. D. Heath ... 889

Arthroplasty and Capsulotomy. Mobilization of Metacarpophalangeal Joints. Samuel Benjamin Fowler 193

Arthroplasty of the Elbow by Replacement of the Distal Portion of the Humerus with an Acrylic Prosthesis. Richard H. Mellen and George S. Phalen ... 348

Arthroplasty of the Hip for Congenital Dislocation in Children. Paul C. Colonna ... 711

Arthroplasty, Trochanteric, in the Treatment of Ununited Fractures of the Neck of the Femur. [Symposium.] Philip D. Wilson ... 313

Arthroplasty, Vitallium-Mold, Results of Treatment by. Complications of Old Fractures of the Neck of the Femur. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law ... 41

[**Arthrotomy of the Ankle.**] Osteochondritis Dissecans of the Talus. R. Beverley Ray and Edward J. Coughlin, Jr. ... 697

[**Articular Cartilage,** Changes in.] The Effect of Irradiation on Epiphyseal Growth. II. Experimental Studies upon the Dog. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr. 853

[**Articular Fusion.**] Fusion of the Hip in Children. The Chandler Method. Charles N. Pease ... 874

Artificial Limbs, Committee on, of the National Research Council, The Functions and Activities of the. A Preliminary Report. Paul E. Klopsteg ... 538

[**Aseptic Necrosis.**] Complications of Fractures of the Neck of the Femur. [Symposium.] H. B. Boyd and I. L. George ... 13

[**Aseptic Necrosis.**] Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law ... 41

[**Aseptic Necrosis.**] The Pathology of Ununited Fractures of the Neck of the Femur. [Symposium.] Mary S. Sherman and D. B. Phemister ... 19

Aspects of Osteoid Osteoma, Some Surgical. George T. Wallace ... 777

Astragalectomy, Tibiotarsal Arthrodesis after. A Report of Eight Cases. J. C. Carmack and Halford Hallock ... 476

[**Astragalus.**] Osteochondritis Dissecans of the Talus. R. Beverley Ray and Edward J. Coughlin, Jr. 697

Autonomic Control of Synovial-Fluid Reaction. C. I. Reed, Herman Joffe, and Norman R. Joseph. . 370

[**Avulsion, Epiphyseal.**] Ununited Epiphysis of the Ischium. Report of a Case. Harry Winkler and Ira H. Rapp ... 234

B

Back. *See* **Spine.**

[**Backache.**] Backward Displacement of Fifth Lumbar Vertebra in Degenerative Disc Disease. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae. Gilbert H. Fletcher ... 1019

[**Backache.**] Observations on Obscure Mechanisms of Nerve-Root Compression with a Diagnostic Tap Test. Report of Two Cases. Henry Briggs and Sidney Keats ... 758

[**Backache,** Types of.] Pre-Employment Examinations of the Back. Steele F. Stewart ... 215

Back, Low-, Pain in Relation to the Disc Factor, An Analysis and Differentiation of. [Symposium.] Arthur Steindler ... 455

Back, Low-, Pain With or Without Sciatica, The Disc Factor in. [Symposium.] J. Grafton Love ... 438

Back, Low-, Pain and Sciatic Pain Associated with Spondylolisthesis, Operative Treatment for the Relief of. Laminectomy and Foraminotomy with Chip Fusion. Henry Briggs and Sidney Keats . . 328

Back, Pre-Employment Examinations of the. Steele F. Stewart ... 215

Backward Displacement of Fifth Lumbar Vertebra in Degenerative Disc Disease. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae. Gilbert H. Fletcher ... 1019

[**Bacteriaemia.**] Osteomyelitis Caused by *Salmonella typhimurium*. Ruth F. Krauss ... 227

[**Bacteriaemia.**] Salmonella Infection Involving the Knee Joint. Report of a Case. Theodore H. Vinke and Harold F. Downing ... 232

[**Bankart's Operation.**] Diagnosis and Treatment of Recurrent Dislocation of the Shoulder. Ross Robertson and W. J. Stark ... 797

Bankart Operation for Recurrent Dislocation of the Shoulder, An Instrument for Use in the. George I. Reiss ... 812

Baruch Committee on Physical Medicine ... 1101

Bennett's Fracture, Old Unreduced, An Operation for. John R. Vasko ... 753

PAGE

Bilateral Intervertebral Foraminotomy, Wedge Osteotomy of the Spine with. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine. Henry Briggs, Sidney Keats, and Philip T. Schlesinger . . . 1075

Birth Injury to the Proximal Humeral Epiphysis, Humerus Varus Following. Leo S. Lucas and Joseph H. Gill . . . 367

Blade-Plate Fixation. Report of a Case. Irwin A. Jaslow . . . 814

Blade-Plate for the Treatment of Intertrochanteric Fractures of the Hip, A Modification of the. Robert Glen Bronson . . . 537

Blue, Trypan, Absorption of, from the Human Knee Joint. R. L. deC. H. Saunders and E. Gordon Young . . . 301

Bone Bank, A Preliminary Report on the. The Use of Homogenous Bone Grafts. Leonard F. Bush . . . 620

Bone, Calcified Medullary Defects in. Albert Barnett Ferguson, Jr. . . . 598

Bone Cavities, The Use of Absorbable Substances to Obliterate, and as Hemostatic Agents in Operative Procedures on Bones and Joints. Joseph Buchman and John E. Blair . . . 650

Bone, Cortical and Cancellous, as Grafting Material, The Evaluation of. A Clinical and Experimental Study. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost . . . 381

Bone, *Cryptococcus neoformans* Infection (Torulosis) of. Report of a Case. Claran H. Jesse . . . 810

Bones, Fixation of, by Plates and Screws. Leonard T. Peterson . . . 335

[**Bone Graft.**] Arthrodesis of the Elbow. A Preliminary Report of a New Operation. Moses Gellman . . . 850

Bone Grafts. An End-Result Study of the Healing Time. W. A. Bishop, Jr., Richard C. Stauffer, and Alvin L. Swenson . . . 961

Bone Grafts, Fibular, The Repair of Defects of the Radius with. Richard C. Miller and George S. Phalen . . . 629

Bone Grafts, Homogenous, The Use of. A Preliminary Report on the Bone Bank. Leonard F. Bush . . . 620

Bone Grafts, Immobilization with, in the Treatment of Tuberculosis of the Joints and Pott's Disease. Etienne Sorrel and Madame Sorrel-Dejerine . . . 603

Bone Grafts, Onlay, without Screw or Tie Fixation and without Breaking down of the Fibrous Union, Treatment of Ununited Fractures by. Dallas B. Phemister . . . 946

Bone Graft, Rotation and, for Ununited Fractures of the Neck of the Femur, The High Geometric Osteotomy, with. A Preliminary Report. James A. Dickson . . . 1005

[**Bone Graft.**] Tuberculosis of the Hip in Children. Certain Roentgenographic Manifestations, Secondary Changes in the Extremity, and Some Suggestions for a Program of Therapy. H. R. McCarroll and R. D. Heath . . . 889

[**Bone-Grafting.**] The Evaluation of Cortical and Cancellous Bone as Grafting Material. A Clinical and Experimental Study. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost . . . 381

[**Bone-Grafting.**] Intramedullary Onlay Grafts for Defects Resulting from Shattering Fractures. Frank G. Murphy . . . 1068

[**Bone-Grafting.**] The "Latch" Graft: A Combination of Inlay and Intramedullary Graft Which Is Self-Retaining. Peter-Cyrus Rizzo and Otto Lehmann . . . 354

[**Bone-Grafting.**] Metacarpal Reconstruction. J. William Littler . . . 723

Bone, Growth of, Organizers and the. Pierre Lacroix . . . 292

[**Bone Growth.**] Vitamin-A Deficiency and Excess in Relation to Skeletal Growth. S. Burt Wolbach . . . 171

Bone, Internal Fixation of, and Neurorrhaphy. Combined Lesions of Radial Nerves and Humerus Fractures. William K. Massie and Arthur Ecker . . . 977

Bone, Long-, Deformities, A Method for Correcting. Osteotomy-Osteoclasis. John Royal Moore . . . 119

Bones, Long, Painful, Non-Suppurative, Localized Sclerosis of the. With a Report of Two Cases. William Mackenzie . . . 49

Bones, Long, Pseudarthrosis of the. Isidoro Blumenfeld . . . 97

Bones, Long, Roentgenographic Features of Metastases of a Retinoblastoma to the. Report of a Case. Ralph E. Rowen . . . 805

Bone-Plating, Slotted Jaw Forceps for. S. Perry Rogers . . . 1100

Bone, Reconstruction of Defects of the Tibia and Femur with Apposing Massive Grafts from the Affected. John J. Flanagan and Henry S. Burem . . . 587

Bone Sarcoma, Survival in. Harry Platt . . . 6

Book Reviews

Anderson, Odin W.; Dollar, Melvin L.; and Sinai, Nathan. Health Insurance in the United States. 1109

Appleton, A. B.; Hamilton, W. J.; and Simon, G. Surface and Radiological Anatomy for Students and General Practitioners. Ed. 2 . . . 1110

Book Reviews (*continued*)

PAGE

Bancroft, Frederic W., and Humphreys, George H., II, Editors. Surgical Treatment of the Soft Tissues ... 551
Berg, Roland H. The Challenge of Polio. The Crusade Against Infantile Paralysis ... 837
Böhler, Lorenz. Die Technik der Knochenbruchbehandlung im Frieden und im Kriege. Ed. 11, 5 bis 8 Auflage, Band III, Die Marknagelung nach Küntscher ... 837
Brocher, J. E. W. Die Scheuermannsche Krankheit und ihre Differentialdiagnose (Scheuermann's Disease and Its Differential Diagnosis) ... 836
Committee on Medicine and the Changing Order, New York Academy of Medicine. Medical Addenda. Related Essays on Medicine and the Changing Order ... 1110
Committee on Medicine and the Changing order, New York Academy of Medicine. Medicine in the Changing Order ... 837
Daniels, Lucille; Williams, Marian; and Worthingham, Catherine. Muscle Testing. Techniques of Manual Examination ... 836
Demel, Rudolf. Chirurgie der Infektionen. Mit Weitgehender Berücksichtigung der Behandlung. 1109
Dollar, Melvin L.; Sinai, Nathan; and Anderson, Odin W. Health Insurance in the United States. 1109
Drobil, Rudolf. Die aktive Bewegungstherapie. Ein Leitfaden zur Nachbehandlung von Knochen- und Gelenksverletzungen ... 835
Elman, Robert. Parenteral Alimentation in Surgery with Special Reference to Proteins and Amino Acids ... 835
Fleming, Alexander, Editor. Penicillin. Its Practical Application ... 550
Frantz, Virginia Kneeland, and Harvey, Harold Dortic. Introduction to Surgery ... 551
Goñi, Adelberto R. (Translated by Georgianna Simmons Gittinger). Myasthenia Gravis ... 552
Hamilton, W. J.; Simon, G.; and Appleton, A. B. Surface and Radiological Anatomy for Students and General Practitioners. Ed. 2 ... 1110
Handfield-Jones, R. M. Surgery of the Hand. Ed. 2 ... 1108
Harvey, Harold Dortic, and Frantz, Virginia Kneeland. Introduction to Surgery ... 551
Holzer, Wolfgang. Physikalische Medizin in Diagnostik und Therapie (Physical Medicine in Diagnosis and Treatment). 5 und 6 Auflage ... 1109
Humphreys, George H., II, and Bancroft, Frederic W., Editors. Surgical Treatment of the Soft Tissues ... 551
Kracke, Roy R. Color Atlas of Hematology. With Brief Clinical Descriptions of Various Diseases. 834
Krömer, Karl. Die verletzte Hand. Erkennung, Behandlung und Behandlungsergebnisse der Finger- und Handverletzungen und Infektionen (The Injured Hand) ... 832
Le Vay, A. David. A Synopsis of Orthopaedic Surgery ... 834
Martorell, F. Accidentes vasculares de los miembros (Vascular Damage to the Extremities). Ed. 2 551
Martorell, F. Varices. Su tratamiento basado en la flebografía (The Use of Phlebography in the Diagnosis and Treatment of Varices) ... 836
Milch, Henry. Osteotomy of the Long Bones ... 1108
Ottolenghi, Carlos E. Tracción esquelética (Skeletal Traction) ... 833
Painter, Charles F., Editor. The 1946 Year Book of Industrial and Orthopedic Surgery ... 833
Pitkin, George P. Conduction Anesthesia ... 550
Quiring, Daniel P. The Head, Neck and Trunk. Muscles and Motor Points ... 837
Short, A. Rendle, and Tidy, Henry, Editors. The Medical Annual. A Year Book of Treatment and Practitioner's Index ... 552
Simon, G.; Appleton, A. B.; and Hamilton, W. J. Surface and Radiological Anatomy for Students and General Practitioners. Ed. 2 ... 1110
Sinai, Nathan; Anderson, Odin W.; and Dollar, Melvin L. Health Insurance in the United States. 1109
Smillie, I. S. Injuries of the Knee Joint ... 550
Soeur, R. L'ostéosynthèse au clou (Osteosynthesis by Pinning) ... 551
Stuck, Walter Goodloe, and Venable, Charles Scott. The Internal Fixation of Fractures ... 833
Tidy, Henry, and Short, A. Rendle, Editors. The Medical Annual. A Year Book of Treatment and Practitioner's Index ... 552
Venable, Charles Scott, and Stuck, Walter Goodloe. The Internal Fixation of Fractures ... 833
Watkins, Arthur L., Editor. Physical Medicine in General Practice ... 1109
Weinbren, M. A Manual of Tomography ... 551
Williams, Marian; Worthingham, Catherine; and Daniels, Lucille. Muscle Testing. Techniques of Manual Examination ... 836
Wittmoser, Raimund. Die Reverdin-Plastik ... 552
Worthingham, Catherine; Daniels, Lucille; and Williams, Marian. Muscle Testing. Techniques of Manual Examination ... 836

PAGE

Brachial Plexus, Tendinous Reconstruction of the Hand Following Irreparable Injury to the Peripheral Nerves and. C. A. Luckey and S. R. McPherson ... 560

[**Brachium.**] Humerus Varus Following Birth Injury to the Proximal Humeral Epiphysis. Leo S. Lucas and Joseph H. Gill ... 367

British Orthopaedic Association, The ... 254, 826

[**Brittain Arthrodesis.**] Tuberculosis of the Hip in Children. Certain Roentgenographic Manifestations, Secondary Changes in the Extremity, and Some Suggestions for a Program of Therapy. H. R. McCarroll and R. D. Heath ... 889

C

[**Calcaneus, Tendo.**] Xanthoma of the Achilles Tendon. Morris S. Friedman ... 760

[**Calcareous Deposits.**] Chondrodystrophia Calcificans Congenita. Report of Two Cases. Theodore H. Vinke and F. Paul Duffy ... 509

Calcareous Deposits in Soft Tissues about the Proximal Interphalangeal Joint of the Index Finger. Report of a Case. Anthony F. DePalma ... 808

Calcified Medullary Defects in Bone. Albert Barnett Ferguson, Jr. ... 598

[**Calcium Metabolism.**] Calcareous Deposits in Soft Tissues about the Proximal Interphalangeal Joint of the Index Finger. Report of a Case. Anthony F. DePalma ... 808

[**Callus, Intermediary.**] Treatment of Ununited Fractures by Onlay Bone Grafts without Screw or Tie Fixation and without Breaking down of the Fibrous Union. Dallas B. Phemister ... 946

Canal, Spinal, Spina Bifida Aperta and Congenital Stricture of the. Münir A. Sarpyener ... 817

Cancellous Bone, Cortical and, as Grafting Material, The Evaluation of. A Clinical and Experimental Study. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost 381

[**Capsulorrhaphy.**] Diagnosis and Treatment of Recurrent Dislocation of the Shoulder. Ross Robertson and W. J. Stark ... 797

Capsulotomy, Arthroplasty and. Mobilization of Metacarpophalangeal Joints. Samuel Benjamin Fowler ... 193

[**Carpal Navicular.**] Some Surgical Aspects of Osteoid Osteoma. George T. Wallace ... 777

Carpometacarpal Amputations, A Prosthesis for. Thomas John Canty ... 801

[**Carpometacarpal Joint.**] An Operation for Old Unreduced Bennett's Fracture. John R. Vasko ... 753

[**Cartilage, Articular.**] Osteochondritis Dissecans of the Talus. R. Beverley Ray and Edward J. Coughlin, Jr. ... 697

Cartilage and Chondroitin Sulphate. I. The Physiological Role of Chondroitin Sulphate in Cartilage. Bengt Sylvén ... 745

Cartilage and Chondroitin Sulphate. II. Chondroitin Sulphate and the Physiological Ossification of Cartilage. Bengt Sylvén ... 973

[**Cartilage,** Degeneration of.] Chondromalacia Patellae. Jacob Bronitsky ... 931

[**Cartilage, Semilunar.**] The Relation of Discoid Meniscus to Cyst Formation and Joint Mechanics. J. Kulowski and H. W. Rickett ... 990

Cast Spreader, Modification of. Fred A. Polesky ... 249

Cavities, Bone, The Use of Absorbable Substances to Obliterate, and as Hemostatic Agents in Operative Procedures on Bones and Joints. Joseph Buchman and John E. Blair ... 650

Certification, Education and, of Orthopaedic Surgeons in the United States. [Presidential Address, The American Orthopaedic Association.] J. Albert Key ... 1

Cessation of Epiphyseal Growth, Unclassified Premature, about the Knee Joint. Otto C. Kestler ... 788

Chandler Method, The. Fusion of the Hip in Children. Charles N. Pease ... 874

Children, Arthroplasty of the Hip for Congenital Dislocation in. Paul C. Colonna ... 711

Children, Fusion of the Hip in. The Chandler Method. Charles N. Pease ... 874

Children, Tuberculosis of the Hip in. Certain Roentgenographic Manifestations, Secondary Changes in the Extremity, and Some Suggestions for a Program of Therapy. H. R. McCarroll and R. D. Heath ... 889

Chip Fusion, Laminectomy and Foraminotomy with. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Henry Briggs and Sidney Keats ... 328

[**Cholesterol Metabolism.**] Xanthoma of the Achilles Tendon. Morris S. Friedman ... 760

[**Chondritis of the Patella.**] Chondromalacia Patellae. Jacob Bronitsky ... 931

[**Chondrodysplasia.**] Calcified Medullary Defects in Bone. Albert Barnett Ferguson, Jr. ... 598

Chondrodystrophia Calcificans Congenita. Report of Two Cases. Theodore H. Vinke and F. Paul Duffy 509

Chondroitin Sulphate, Cartilage and. I. The Physiological Role of Chondroitin Sulphate in Cartilage. Bengt Sylvén ... 745

Chondroitin Sulphate, Cartilage and. II. Chondroitin Sulphate and the Physiological Ossification of Cartilage. Bengt Sylvén ... 973

PAGE

Chondromalacia Patellae. Jacob Bronitsky 931
[**Chondromyxosarcoma.**] Survival in Bone Sarcoma. Harry Platt 6
[**Chronaxia.**] The Newer Pathological and Physiological Concepts of Anterior Poliomyelitis and Their Clinical Interpretation. Arthur Steindler 59
Chronic Physical Disability, A Syndrome Causing. Muscle Fibrodystrophy. Robert Bingham 85
Chronic Strain of the Tibial Collateral Ligament from Roller-Skating, Ossifications Associated with. Edmund W. Klinefelter 237
[**Circulation.**] Primary Arterial Injury Complicating Extremity Fractures. Donald W. Hedrick, F. B. Hawkins, and C. O. Townley 738
Clavus, Painful Interdigital (Soft Corn). Treatment by Skin-Plastic Operation. Edward J. Haboush and Robert V. Martin 756
Clinical and Experimental Study, A. The Evaluation of Cortical and Cancellous Bone as Grafting Material. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost 381
Clinical Interpretation, The Newer Pathological and Physiological Concepts of Anterior Poliomyelitis and Their. Arthur Steindler 59
Clinical Methods, Some New. The Diagnosis of Meniscus Injuries. A. Graham Apley 78
Closed Operations, Open and, With Special Reference to Reduction by. Fracture-Dislocation of the Thoracolumbar Spine. J. Kenneth Stanger 107
Closure, Secondary, of Wounds Associated with Compound Fractures. James O. Barr 376
[**Club-Foot.**] Modification of the Denis Browne Splint. Michael Bluhm 248
Club-Foot, Recurrent Congenital, Transposition of the Anterior Tibial Tendon in the Treatment of. George J. Garceau and K. R. Manning 1044
[**Collateral Ligaments, Reconstruction of.**] Operative Treatment of Paralytic Genu Recurvatum. Clarence H. Heyman 644
Collateral Ligament, Tibial, Ossifications Associated with Chronic Strain of the, from Roller-Skating. Edmund W. Klinefelter 237
[**Colonna Reconstruction Operation, Modified.**] Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law 41
Committee on Artificial Limbs of the National Research Council, The 544
Committee on Artificial Limbs of the National Research Council, The Functions and Activities of the. A Preliminary Report. Paul E. Klopsteg 538
Complications of Fractures of the Neck of the Femur. [Symposium.] H. B. Boyd and I. L. George 13
Complications of Fracture of the Neck of the Femur, The Whitman Reconstruction Operation for. [Symposium.] Arthur Krida 310
Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law 41
Complications of Old Fractures of the Neck of the Femur and Their Treatment, Symposium on the. [The American Orthopaedic Association.]
Boyd, H. B., and George, I. L. 13
Gill, A. Bruce 305
Krida, Arthur 310
Sherman, Mary S., and Phemister, D. B. 19
Smith-Petersen, M. N.; Larson, Carroll B.; Aufranc, Otto E.; and Law, W. Alexander 41
Wilson, Philip D. 313
Discussion
Badgley, Carl E. 326
Blount, Walter P. 822
Colonna, Paul C. 327
Platt, Harry 326
Compound Fractures, Secondary Closure of Wounds Associated with. James O. Barr 376
Compression, Nerve-Root, Observations on Obscure Mechanisms of, with a Diagnostic Tap Test. Report of Two Cases. Henry Briggs and Sidney Keats 758
Congenital Club-Foot, Recurrent, Transposition of the Anterior Tibial Tendon in the Treatment of. George J. Garceau and K. R. Manning 1044
Congenital Dislocation in Children, Arthroplasty of the Hip for. Paul C. Colonna 711
Congenital Dislocation of the Patella. Case Report with History of Four Generations. E. B. Mumford 1083
Congenital Stricture of the Spinal Canal, Spina Bifida Aperta and. Münir A. Sarpyener 817
Congenital Subluxation, Primary, of the Hip. Jacques Leveuf 149

PAGE

Control, Autonomic, of Synovial-Fluid Reaction. C. I. Reed, Herman Joffe, and Norman R. Joseph . . 370
(Corn, Soft), Painful Interdigital Clavus. Treatment by Skin-Plastic Operation. Edward J. Haboush and Robert V. Martin 756
Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis, Experiences with Epiphyseal Arrest in. A Method of Predicting the Effect. William T. Green and Margaret Anderson 659
Correction, A Method of. Idiopathic Scoliosis. Goronwy E. Thomas 907
Cortical and Cancellous Bone as Grafting Material, The Evaluation of. A Clinical and Experimental Study. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost 381
Cortical Hyperostosis, Infantile. Douglas D. Dickson, Clarence A. Luckey, and Noble H. Logan 224
[**Coxa Valga.**] Functional Aspects of the Abductor Muscles of the Hip. Verne T. Inman 607
[**Crepitation of Patella.**] Chondromalacia Patellae. Jacob Bronitsky 931
Cryptococcus neoformans Infection (Torulosis) of Bone. Report of a Case. Claran H. Jesse 810
[**Cuneonavicular Joint.**] The Treatment of Injuries to the Tarsal Navicular. A. Jackson Day 359
Current Literature 550, 832, 1108
[**Curvature.**] Idiopathic Scoliosis. A Method of Correction. Goronwy E. Thomas 907
Cyst Formation and Joint Mechanics, The Relation of Discoid Meniscus to. J. Kulowski and H. W. Rickett 990
Cystica, Ureteritis, Report of a Case Without Parathyroid Hyperplasia and With. Renal Osteitis Fibrosa Superimposed on Senile Osteoporosis. George W. Cottrell 491

D

Defects, Calcified Medullary, in Bone. Albert Barnett Ferguson, Jr. 598
[**Defects, Metacarpal.**] Metacarpal Reconstruction. J. William Littler 723
Defects of the Radius, The Repair of, with Fibular Bone Grafts. Richard C. Miller and George S. Phalen 629
Defects Resulting from Shattering Fractures, Intramedullary Onlay Grafts for. Frank G. Murphy 1068
Defects of the Tibia and Femur, Reconstruction of, with Apposing Massive Grafts from the Affected Bone. John J. Flanagan and Henry S. Burem 587
Deficiency and Excess, Vitamin-A, in Relation to Skeletal Growth. S. Burt Wolbach 171
Definition of Human Locomotion on the Basis of Measurement, The. With Description of Oscillographic Method. R. Plato Schwartz and Arthur L. Heath 203
Deformity, Flexion, Correction of, in Five Cases of Ankylosing Arthritis of the Spine. Wedge Osteotomy of the Spine with Bilateral Intervertebral Foraminotomy. Henry Briggs, Sidney Keats, and Philip T. Schlesinger 1075
Deformities, Long-Bone, A Method for Correcting. Osteotomy-Osteoclasis. John Royal Moore 119
Degenerative Arthritis, Arthrodesis of the Hip Joint in. A Modified One-Stage Procedure with Internal Fixation. James A. Dickson and Leon J. Willien 687
[**Degenerative Changes** in Articular Cartilage.] The Effect of Roentgen Irradiation on Epiphyseal Growth. II. Experimental Studies upon the Dog. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr 853
Degenerative Disc Disease, Backward Displacement of Fifth Lumbar Vertebra in. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae. Gilbert H. Fletcher 1019
[**Delayed Union.**] Bone Grafts. An End-Result Study of the Healing Time. W. A. Bishop, Jr., Richard C. Stauffer, and Alvin L. Swenson 961
Denis Browne Splint, Modification of the. Michael Bluhm 248
Deposits, Calcareous, in Soft Tissues about the Proximal Interphalangeal Joint of the Index Finger. Report of a Case. Anthony F. DePalma 808
Diagnosis of Meniscus Injuries, The. Some New Clinical Methods. A. Graham Apley 78
Diagnosis and Treatment of Recurrent Dislocation of the Shoulder. Ross Robertson and W. J. Stark . . 797
Diagnosis and Treatment of Tardy Paralysis of the Ulnar Nerve. Based on a Study of 100 Cases. James R. Gay and J. Grafton Love 1087
Diagnostic Tap Test, Observations on Obscure Mechanisms of Nerve-Root Compression with a Report of Two Cases. Henry Briggs and Sidney Keats 758
Disability, Chronic Physical, A Syndrome Causing. Muscle Fibrodystrophy. Robert Bingham 85
Disc Disease, Degenerative, Backward Displacement of Fifth Lumbar Vertebra in. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae. Gilbert H. Fletcher 1019

PAGE

Disc Factor, An Analysis and Differentiation of Low-Back Pain in Relation to the. [Symposium.] Arthur Steindler ... 455
Disc Factor in Low-Back Pain With or Without Sciatica, The. [Symposium.] J. Grafton Love ... 438
Disc, Intervertebral, Anatomicophysiological Aspects of Injuries to the. [Symposium.] Verne T. Inman and J. B. deC. M. Saunders ... 461
Disc, Intervertebral, End-Result Study of the. [Symposium.] Raymond E. Lenhard ... 425
[Disc, Intervertebral.] Laminectomy and Foraminotomy with Chip Fusion. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Henry Briggs and Sidney Keats ... 328
[Disc, Intervertebral.] Observations on Obscure Mechanisms of Nerve-Root Compression with a Diagnostic Tap Test. Report of Two Cases. Henry Briggs and Sidney Keats ... 758
Discs, Intervertebral, Pathological Studies of. [Symposium.] Charles Eckert and Alfred Decker ... 447
Disc, Intervertebral, Ruptured, and Sciatic Pain. [Symposium.] Joseph S. Barr ... 429
Disc, Intervertebral, Symposium on the. Introduction. Arthur G. Davis ... 424
Disc, Intervertebral, Symposium on the. [The American Orthopaedic Association.]
Barr, Joseph S. ... 429
Davis, Arthur G. ... 424
Eckert, Charles, and Decker, Alfred ... 447
Inman, Verne T., and Saunders, J. B. deC. M. ... 461
Lenhard, Raymond E. ... 425
Love, J. Grafton ... 438
Steindler, Arthur ... 455
Discussion
Hallock, Halford ... 475
Mixter, William Jason ... 468
Willis, Theodore A. ... 469
Woodhall, Barnes ... 470
Discoid Meniscus, The Relation of, to Cyst Formation and Joint Mechanics. J. Kulowski and H. W. Rickett ... 990
Discrepancies in Length of the Lower Extremities in Infantile Paralysis, Experiences with Epiphyseal Arrest in Correcting. A Method of Predicting the Effect. William T. Green and Margaret Anderson 659
Disease, Legg-Perthes, A Sling for Use in. Clarence H. Snyder ... 524
Disease, The Peripheral, of Poliomyelitis. John F. Pohl ... 1027
Dislocation, Congenital, in Children, Arthroplasty of the Hip for. Paul C. Colonna ... 711
Dislocation, Congenital, of the Patella. Case Report with History of Four Generations. E. B. Mumford 1083
[Dislocation, Congenital.] Primary Congenital Subluxation of the Hip. Jacques Leveuf ... 149
Dislocation, Fracture-, of the Ankle with Fixed Displacement of the Fibula Behind the Tibia. David M. Bosworth ... 130
Dislocation, Fracture-, of the Thoracolumbar Spine. With Special Reference to Reduction by Open and Closed Operations. J. Kenneth Stanger ... 107
[Dislocation.] An Operation for Old Unreduced Bennett's Fracture. John R. Vasko ... 753
Dislocation, Recurrent Posterior, of the Shoulder. J. C. R. Hindenach ... 582
Dislocation, Recurrent, of the Shoulder, Diagnosis and Treatment of. Ross Robertson and W. J. Stark. 797
Dislocation, Recurrent, of the Shoulder, An Instrument for Use in the Bankart Operation for. George I. Reiss ... 812
Displacement, Backward, of Fifth Lumbar Vertebra in Degenerative Disc Disease. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae. Gilbert H. Fletcher ... 1019
Displacement, Fixed, of the Fibula Behind the Tibia, Fracture-Dislocation of the Ankle with. David M. Bosworth ... 130
Dog, II. Experimental Studies upon the. The Effect of Roentgen Irradiation on Epiphyseal Growth. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr ... 853
Dual-Purpose Retractor, An Efficient. Peter-Cyrus Rizzo ... 240
[Dyes, Effect of.] Absorption of Trypan Blue from the Human Knee Joint. R. L. deC. H. Saunders and E. Gordon Young ... 301

E

Editorial Announcement ... 839
Education and Certification of Orthopaedic Surgeons in the United States. [Presidential Address, The American Orthopaedic Association.] J. Albert Key ... 1

PAGE

Effect, A Method of Predicting the. Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. William T. Green and Margaret Anderson. 659

Effect of Roentgen Irradiation on Epiphyseal Growth, The. II. Experimental Studies upon the Dog. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr. 853

Efficient Dual-Purpose Retractor, An. Peter-Cyrus Rizzo 240

Elbow, Arthrodesis of the. A Preliminary Report of a New Operation. Moses Gellman. 850

Elbow, Arthroplasty of the, by Replacement of the Distal Portion of the Humerus with an Acrylic Prosthesis. Richard H. Mellen and George S. Phalen 348

[**Elbow.**] Diagnosis and Treatment of Tardy Paralysis of the Ulnar Nerve. Based on a Study of 100 Cases. James R. Gay and J. Grafton Love 1087

[**Elbow.**] Osteochondritis of the Supratrochlear Septum. Report of a Case. W. T. Ross 514

[**Elbow.**] Roentgenographic Features of Metastases of a Retinoblastoma to the Long Bones. Report of a Case. Ralph E. Rowen 805

[**Electrical Stimulation.**] A Miniature Galvanic Stimulator. James E. Bateman 241

[**Electrolytic Action.**] Fixation of Bones by Plates and Screws. Leonard T. Peterson 335

[**Embryogenesis of Cartilage.**] Cartilage and Chondroitin Sulphate. II. Chondroitin Sulphate and the Physiological Ossification of Cartilage. Bengt Sylvén 973

[**Endochondral Ossification.**] Organizers and the Growth of Bone. Pierre Lacroix 292

End-Result Study of the Healing Time, An. Bone Grafts. W. A. Bishop, Jr., Richard C. Stauffer, and Alvin L. Swenson 961

End-Result Study of the Intervertebral Disc. [Symposium.] Raymond E. Lenhard 425

Epiphyseal Arrest, Experiences with, in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. A Method of Predicting the Effect. William T. Green and Margaret Anderson 659

[**Epiphyseal-Cartilage Cells.**] Vitamin-A Deficiency and Excess in Relation to Skeletal Growth. S. Burt Wolbach 171

Epiphyseal Growth, The Effect of Roentgen Irradiation on. II. Experimental Studies upon the Dog. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr 853

Epiphyseal Growth about the Knee Joint, Unclassified Premature Cessation of. Otto C. Kestler 788

[**Epiphyseodesis.**] Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. A Method of Predicting the Effect. William T. Green and Margaret Anderson 659

[**Epiphyses,** Premature Closure of.] Tuberculosis of the Hip in Children. Certain Roentgenographic Manifestations, Secondary Changes in the Extremity, and Some Suggestions for a Program of Therapy. H. R. McCarroll and R. D. Heath 889

[**Epiphyses, Stippled.**] Chondrodystrophia Calcificans Congenita. Report of Two Cases. Theodore H. Vinke and F. Paul Duffy 509

[**Epiphysiolysis.**] Renal Rickets. Report of a Case. J. L. Richardson 503

Epiphysis, Proximal Humeral, Humerus Varus Following Birth Injury to the. Leo S. Lucas and Joseph H. Gill 367

Epiphysis, Ununited, of the Ischium. Report of a Case. Harry Winkler and Ira H. Rapp 234

[**Equinovarus, Talipes.**] Modification of the Denis Browne Splint. Michael Bluhm 248

[**Equinovarus.**] Transposition of the Anterior Tibial Tendon in the Treatment of Recurrent Congenital Club-Foot. George J. Garceau and K. R. Manning 1044

[**Equinus,** Degree of.] Tibiotarsal Arthrodesis after Astragalectomy. A Report of Eight Cases. J. C. Carmack and Halford Hallock 476

Etiological Factors, A Study with Special Reference to. March Fractures. James G. Donald and William T. Fitts, Jr. 297

Evaluation of Cortical and Cancellous Bone as Grafting Material, The. A Clinical and Experimental Study. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost 381

Evaluation of the Results of These Operative Procedures Based on Personal Examinations and Interviews. (Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty.) [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law. 46

Evolution of the Orthopaedic Branch of Surgery in New York City, A Review of the. Royal Whitman. 250

[**Ewing's Tumor.**] Survival in Bone Sarcoma. Harry Platt 6

Examinations, Pre-Employment, of the Back. Steele F. Stewart 215

Excess, Vitamin-A Deficiency and, in Relation to Skeletal Growth. S. Burt Wolbach 171

Exercising, Foot-, Floor Pad for. Maurice H. Herzmark 1098

PAGE

Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. A Method of Predicting the Effect. William T. Green and Margaret Anderson . . . 659

Experimental Study, A Clinical and. The Evaluation of Cortical and Cancellous Bone as Grafting Material. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost . . . 381

Experimental Studies upon the Dog, II. The Effect of Roentgen Irradiation on Epiphyseal Growth. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr . . . 853

Extensor Muscles, Wrist, The Transfer of, to Restore or Reinforce Flexion Power of the Fingers and Opposition of the Thumb. George S. Phalen and Richard C. Miller . . . 993

External Rotation of the Leg in Poliomyelitis. Samuel C. Yachnin . . . 415

External Rotation of Limbs in Traction, A Method of Offsetting the. Robert M. Rose . . . 535

[**Extra-Articular Adhesions.**] Knee Movement Following Fractures of the Femoral Shaft. John Charnley . . . 679

[**Extraperiosteal Sarcoma.**] Survival in Bone Sarcoma. Harry Platt . . . 6

Extremities, Lower, Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the, in Infantile Paralysis. A Method of Predicting the Effect. William T. Green and Margaret Anderson . . . 659

Extremity Fractures, Primary Arterial Injury Complicating. Donald W. Hedrick, F. B. Hawkins, and C. O. Townley . . . 738

Extremity, Secondary Changes in the, Certain Roentgenographic Manifestations, and Some Suggestions for a Program of Therapy. Tuberculosis of the Hip in Children. H. R. McCarroll and R. D. Heath . . . 889

[**Eye.**] Roentgenographic Features of Metastases of a Retinoblastoma to the Long Bones. Report of a Case. Ralph E. Rowen . . . 805

F

Fascia, Popliteal, Rupture of the. Howard R. Dudgeon, Jr. . . . 522

Fascial Repair for Poliomyelitic Paralysis of the Abdominal Wall in Adults. George T. Wallace and William J. West . . . 1031

[**Fatigue Fractures.**] March Fractures. A Study with Special Reference to Etiological Factors. James G. Donald and William T. Fitts, Jr. . . . 297

Femoral Shaft, Knee Movement Following Fractures of the. John Charnley . . . 679

[**Femur.**] Arthrodesis of the Hip for Ununited Fractures. [Symposium.] A. Bruce Gill . . . 305

[**Femur.**] Arthroplasty of the Hip for Congenital Dislocation in Children. Paul C. Colonna . . . 711

[**Femur.**] Blade-Plate Fixation. Report of a Case. Irwin A. Jaslow . . . 814

Femur, Complications of Fractures of the Neck of the. [Symposium.] H. B. Boyd and I. L. George . . . 13

Femur, Complications of Fracture of the Neck of the, The Whitman Reconstruction Operation for. [Symposium.] Arthur Krida . . . 310

Femur, Complications of Old Fractures of the Neck of the. Results of Treatment by Vitallium-Mold Arthroplasty. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law . . . 41

[**Femur.**] Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. A Method of Predicting the Effect. William T. Green and Margaret Anderson . . . 659

Femur, Fractures of the, Oblique Subcervical (Reverse Intertrochanteric). Louis T. Wright . . . 707

[**Femur.**] Functional Aspects of the Abductor Muscles of the Hip. Verne T. Inman . . . 607

Femur, An Improved Rotating Stirrup for Use in the Treatment of Fractures of the, with Skeletal Traction. Gerald G. Gill . . . 531

Femur, Intertrochanteric Fractures of the. A Survey of Treatment in Traction and by Internal Fixation. Mather Cleveland, David M. Bosworth, and Frederick R. Thompson . . . 1049

[**Femur.**] A Modification of the Blade-Plate for the Treatment of Intertrochanteric Fractures of the Hip. Robert Glen Bronson . . . 537

Femur, Osteosynthesis of Intertrochanteric and Pertrochanteric Fractures of the. Hugo Aronsson . . . 637

[**Femur.**] Painful, Non-Suppurative, Localized Sclerosis of the Long Bones. With a Report of Two Cases. William Mackenzie . . . 49

Femur, The Pathology of Ununited Fractures of the Neck of the. [Symposium.] Mary S. Sherman and D. B. Phemister . . . 19

Femur, The Posterolateral Approach to the. George H. Marcy . . . 676

[**Femur.**] Primary Congenital Subluxation of the Hip. Jacques Leveuf . . . 149

[**Femur.**] A Simple Leg Holder for Hip-Nailing Operations. Edward Parnall . . . 536

PAGE

Femur, Symposium on the Complications of Old Fractures of the Neck of the, and Their Treatment. [The American Orthopaedic Association.]
Boyd, H. B., and George, I. L. ... 13
Gill, A. Bruce ... 305
Krida, Arthur ... 310
Sherman, Mary S., and Phemister, D. B. ... 19
Smith-Petersen, M. N.; Larson, Carroll B.; Aufranc, Otto E.; and Law, W. Alexander ... 41
Wilson, Philip D. ... 313
Discussion
Badgley, Carl E. ... 326
Blount, Walter P. ... 822
Colonna, Paul C. ... 327
Platt, Harry ... 326

Femur, Tibia and, Reconstruction of Defects of the, with Apposing Massive Grafts from the Affected Bone. John J. Flanagan and Henry S. Burem ... 587

Femur, The Treatment of Fractures of the, in a Field Hospital. Ivar Alvik ... 422

Femur, Trochanteric Arthroplasty in the Treatment of Ununited Fractures of the Neck of the. [Symposium.] Philip D. Wilson ... 313

[**Femur.**] Unclassified Premature Cessation of Epiphyseal Growth about the Knee Joint. Otto C. Kestler ... 788

Femur, Ununited Fractures of the Neck of the, The High Geometric Osteotomy, with Rotation and Bone Graft, for. A Preliminary Report. James A. Dickson ... 1005

Fibrocartilage, Intervertebral. *See* **Intervertebral Disc.**

Fibrodystrophy, Muscle. A Syndrome Causing Chronic Physical Disability. Robert Bingham ... 85

Fibrous Union, Treatment of Ununited Fractures by Onlay Bone Grafts without Screw or Tie Fixation and without Breaking down of the. Dallas B. Phemister ... 946

Fibula Behind the Tibia, Fracture-Dislocation of the Ankle with Fixed Displacement of the. David M. Bosworth ... 130

[**Fibula.**] Unclassified Premature Cessation of Epiphyseal Growth about the Knee Joint. Otto C. Kestler ... 788

Fibular Bone Grafts, The Repair of Defects of the Radius with. Richard C. Miller and George S. Phalen 629

Fifth Lumbar Vertebra, Backward Displacement of, in Degenerative Disc Disease. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae. Gilbert H. Fletcher ... 1019

Fingers, Flexion Power of the, and Opposition of the Thumb, The Transfer of Wrist Extensor Muscles to Restore or Reinforce. George S. Phalen and Richard C. Miller ... 993

Fingers, An Improved Skin-Traction Technique for the. Hartwin A. Schulze ... 222

Finger, Index, Calcareous Deposits in Soft Tissues about the Proximal Interphalangeal Joint of the. Report of a Case. Anthony DePalma ... 808

[**Fingers.**] Metacarpal Reconstruction. J. William Littler ... 723

[**Fingers.**] Mobilization of Metacarpophalangeal Joints. Arthroplasty and Capsulotomy. Samuel Benjamin Fowler ... 193

Finger and Thumb, Flexor-Tendon Grafts to the. Walter C. Graham ... 553

Fingers, Transposition of, in Severe Injuries of the Hand. Walter C. Graham, J. Barrett Brown, Bradford Cannon, and Daniel C. Riordan ... 998

First European Rheumatology Congress, The ... 823

First Sacral Vertebrae, Fifth Lumbar and, The Significance of the Difference in Anteroposterior Diameters of the. Backward Displacement of Fifth Lumbar Vertebra in Degenerative Disc Disease. Gilbert H. Fletcher ... 1019

Fixation, Blade-Plate. Report of a Case. Irwin A. Jaslow ... 814

Fixation of Bones by Plates and Screws. Leonard T. Peterson ... 335

Fixation, Internal, of Bone and Neurorrhaphy. Combined Lesions of Radial Nerves and Humerus Fractures. William K. Massie and Arthur Ecker ... 977

Fixation, Internal, A Survey of Treatment in Traction and by. Intertrochanteric Fractures of the Femur. Mather Cleveland, David M. Bosworth, and Frederick R. Thompson ... 1049

[**Flat-Foot.**] Floor Pad for Foot-Exercising. Maurice H. Herzmark ... 1098

Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine, Correction of. Wedge Osteotomy of the Spine with Bilateral Intervertebral Foraminotomy. Henry Briggs, Sidney Keats, and Philip T. Schlesinger ... 1075

Flexion Power of the Fingers and Opposition of the Thumb, The Transfer of Wrist Extensor Muscles to Restore or Reinforce. George S. Phalen and Richard C. Miller ... 993

PAGE

Flexor-Tendon Grafts to the Finger and Thumb. Walter C. Graham ... 553
Floor Pad for Foot-Exercising. Maurice H. Herzmark ... 1098
Fluid, Synovial-, Reaction, Autonomic Control of. C. I. Reed, Herman Joffe, and Norman R. Joseph ... 370
[Foetal Rickets.] Chondrodystrophia Calcificans Congenita. Report of Two Cases. Theodore H. Vinke and F. Paul Duffy ... 509
Foot-Exercising, Floor Pad for. Maurice H. Herzmark ... 1098
[Foot.] Chondrodystrophia Calcificans Congenita. Report of Two Cases. Theodore H. Vinke and F. Paul Duffy ... 509
[Foot.] March Fractures. A Study with Special Reference to Etiological Factors. James G. Donald and William T. Fitts, Jr. ... 297
[Foot.] Painful Interdigital Clavus (Soft Corn). Treatment by Skin-Plastic Operation. Edward J. Haboush and Robert V. Martin ... 756
[Foot.] Tibiotarsal Arthrodesis after Astragalectomy. A Report of Eight Cases. J. C. Carmack and Halford Hallock ... 476
[Foot.] Transposition of the Anterior Tibial Tendon in the Treatment of Recurrent Congenital Club-Foot. George J. Garceau and K. R. Manning ... 1044
[Foot.] The Treatment of Injuries to the Tarsal Navicular. A. Jackson Day ... 359
[Foot Plate.] Modification of the Denis Browne Splint. Michael Bluhm ... 248
[Foramen Pressure on Nerve Root.] Observations on Obscure Mechanisms of Nerve-Root Compression with a Diagnostic Tap Test. Report of Two Cases. Henry Briggs and Sidney Keats ... 758
Foraminotomy, Bilateral Intervertebral, Wedge Osteotomy of the Spine with. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine. Henry Briggs, Sidney Keats, and Philip T. Schlesinger ... 1075
Foraminotomy, Laminectomy and, with Chip Fusion. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Henry Briggs and Sidney Keats ... 328
Forceps, Slotted Jaw, for Bone-Plating. S. Perry Rogers ... 1100
Formation and Significance of Vertebral Ankylosis in Tuberculous Spines, The. José Puig Guri ... 136
Four Generations, Case Report with History of. Congenital Dislocation of the Patella. E. B. Mumford ... 1083
Fracture, Bennett's, Old Unreduced, An Operation for. John R. Vasko ... 753
[Fractures.] Bone Grafts. An End-Result Study of the Healing Time. W. A. Bishop, Jr., Richard C. Stauffer, and Alvin L. Swenson ... 961
Fractures, Compound, Secondary Closure of Wounds Associated with. James O. Barr ... 376
Fracture-Dislocation of the Ankle with Fixed Displacement of the Fibula Behind the Tibia. David M. Bosworth ... 130
Fracture-Dislocation of the Thoracolumbar Spine. With Special Reference to Reduction by Open and Closed Operations. J. Kenneth Stanger ... 107
[Fracture-Dislocation.] The Treatment of Injuries to the Tarsal Navicular. A. Jackson Day ... 359
Fractures, Extremity, Primary Arterial Injury Complicating. Donald W. Hedrick, F. B. Hawkins, and C. O. Townley ... 738
Fractures of the Femoral Shaft, Knee Movement Following. John Charnley ... 679
Fractures of the Femur in a Field Hospital, The Treatment of. Ivar Alvik ... 422
Fractures of the Femur, An Improved Rotating Stirrup for Use in the Treatment of, with Skeletal Traction. Gerald G. Gill ... 531
Fractures of the Femur, Intertrochanteric and Pertrochanteric, Osteosynthesis of. Hugo Aronsson ... 637
Fractures of the Femur, Oblique Subcervical (Reverse Intertrochanteric). Louis T. Wright ... 707
[Fracture Fixation.] Blade-Plate Fixation. Report of a Case. Irwin A. Jaslow ... 814
Fractures, Humerus, Combined Lesions of Radial Nerves and. Internal Fixation of Bone and Neurorrhaphy. William K. Massie and Arthur Ecker ... 977
Fractures, Intertrochanteric, of the Femur. A Survey of Treatment in Traction and by Internal Fixation. Mather Cleveland, David M. Bosworth, and Frederick R. Thompson ... 1049
Fractures, Intertrochanteric, of the Hip, A Modification of the Blade-Plate for the Treatment of. Robert Glen Bronson ... 537
[Fractures.] The "Latch" Graft: A Combination of Inlay and Intramedullary Graft Which Is Self-Retaining. Peter-Cyrus Rizzo and Otto Lehmann ... 354
Fractures, March. A Study with Special Reference to Etiological Factors. James G. Donald and William T. Fitts, Jr. ... 297
[Fractures.] Metacarpal Reconstruction. J. William Littler ... 723
Fractures of the Neck of the Femur, Complications of. [Symposium.] H. B. Boyd and I. L. George ... 13
Fracture of the Neck of the Femur, The Whitman Reconstruction Operation for Complications of. [Symposium.] Arthur Krida ... 310
[Fractures, Oblique.] An Improved Skin-Traction Technique for the Fingers. Hartwin A. Schulze ... 222

PAGE

Fractures, Old, of the Neck of the Femur, Complications of. Results of Treatment by Vitallium-Mold Arthroplasty. [Symposium.] M. N. Petersen-Smith, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law ... 41

Fractures, Old, of the Neck of the Femur and Their Treatment, Symposium on the Complications of. [The American Orthopaedic Association.]

Boyd, H. B., and George, I. L. ... 13
Gill, A. Bruce ... 305
Krida, Arthur ... 310
Sherman, Mary S., and Phemister, D. B. ... 19
Smith-Petersen, M. N.; Larson, Carroll B.; Aufranc, Otto E.; and Law, W. Alexander ... 41
Wilson, Philip D. ... 313

Discussion

Badgley, Carl E. ... 326
Blount, Walter P. ... 822
Colonna, Paul C. ... 327
Platt, Harry ... 326

[**Fractures.**] Pseudarthrosis of the Long Bones. Isidoro Blumenfeld ... 97

[**Fractures.**] Reconstruction of Defects of the Tibia and Femur with Apposing Massive Grafts from the Affected Bone. John J. Flanagan and Henry S. Burem ... 587

[**Fractures.**] The Repair of Defects of the Radius with Fibular Bone Grafts. Richard C. Miller and George S. Phalen ... 629

Fractures, Shattering, Intramedullary Onlay Grafts for Defects Resulting from. Frank G. Murphy ... 1068

Fractures, Treatment of Ununited, by Onlay Bone Grafts without Screw or Tie Fixation and without Breaking down of the Fibrous Union. Dallas B. Phemister ... 946

Fractures, Ununited, Arthrodesis of the Hip for. [Symposium.] A. Bruce Gill ... 305

[**Fractures, Ununited.**] The Evaluation of Cortical and Cancellous Bone as Grafting Material. A Clinical and Experimental Study. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost ... 381

Fractures, Ununited, of the Neck of the Femur, The High Geometric Osteotomy, with Rotation and Bone Graft, for. A Preliminary Report. James A. Dickson ... 1005

Fractures, Ununited, of the Neck of the Femur, The Pathology of. [Symposium.] Mary S. Sherman and D. B. Phemister ... 19

Fractures, Ununited, of the Neck of the Femur, Trochanteric Arthroplasty in the Treatment of. [Symposium.] Philip D. Wilson ... 313

Functional Aspects of the Abductor Muscles of the Hip. Verne T. Inman ... 607

Functions and Activities of the Committee on Artificial Limbs of the National Research Council, The. A Preliminary Report. Paul E. Klopsteg ... 538

[**Fusion.**] Arthrodesis of the Elbow. A Preliminary Report of a New Operation. Moses Gellman ... 850

Fusion, Chip, Laminectomy and Foraminotomy with. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Henry Briggs and Sidney Keats ... 328

[**Fusion, Hip.**] Arthrodesis of the Hip Joint in Degenerative Arthritis. A Modified One-Stage Procedure with Internal Fixation. James A. Dickson and Leon J. Willien ... 687

Fusion of the Hip in Children. The Chandler Method. Charles N. Pease ... 874

[**Fusion, Spine.**] An Analysis and Differentiation of Low-Back Pain in Relation to the Disc Factor. [Symposium.] Arthur Steindler ... 455

[**Fusion, Spine.**] The Disc Factor in Low-Back Pain With or Without Sciatica. [Symposium.] J. Grafton Love ... 438

[**Fusion, Spine.**] Ruptured Intervertebral Disc and Sciatic Pain. [Symposium.] Joseph S. Barr ... 429

[**Fusion, Spine.**] The Use of Parallel Grafts and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis. End Results in Forty-one Cases. Tom Outland and Oscar Corn ... 163

[**Fusion.**] Tibiotarsal Arthrodesis after Astragalectomy. A Report of Eight Cases. J. C. Carmack and Halford Hallock ... 476

[**Fusion.**] The Use of Homogenous Bone Grafts. A Preliminary Report on the Bone Bank. Leonard F. Bush ... 620

G

[**Gait.**] The Definition of Human Locomotion on the Basis of Measurement. With Description of Oscillographic Method. R. Plato Schwartz and Arthur L. Heath ... 203

Galvanic Stimulator, A Miniature. James E. Bateman ... 241

PAGE

[**Gauze, Absorbable.**] The Use of Absorbable Substances to Obliterate Bone Cavities and as Hemostatic Agents in Operative Procedures on Bones and Joints. Joseph Buchman and John E. Blair 650
Genu Recurvatum, Paralytic, Operative Treatment of. Clarence H. Heyman 644
[**Genu Valgum.**] Renal Rickets. Report of a Case. J. L. Richardson 503
Geometric Osteotomy, The High, with Rotation and Bone Graft, for Ununited Fractures of the Neck of the Femur. A Preliminary Report. James A. Dickson 1005
German Orthopaedic Meeting 1106
Giant-Cell Tumor, Subperiosteal. Report of a Case. John T. Hodgen and Charles H. Frantz 781
[**Glutaeus Medius Limp.**] Functional Aspects of the Abductor Muscles of the Hip. Verne T. Inman 607
Grafts, Apposing Massive, from the Affected Bone, Reconstruction of Defects of the Tibia and Femur with. John J. Flanagan and Henry S. Burem 587
[**Graft, Bone.**] Arthrodesis of the Elbow. A Preliminary Report of a New Operation. Moses Gellman. 850
Grafts, Bone. An End-Result Study of the Healing Time. W. A. Bishop, Jr., Richard C. Stauffer, and Alvin L. Swenson 961
Grafts, Bone, Fibular, The Repair of Defects of the Radius with. Richard C. Miller and George S. Phalen 629
Grafts, Bone, Homogenous, The Use of. A Preliminary Report on the Bone Bank. Leonard F. Bush. 620
Grafts, Bone, Immobilization with, in the Treatment of Tuberculosis of the Joints and Pott's Disease. Etienne Sorrel and Madame Sorrel-Dejerine 603
Graft, Bone, for Ununited Fractures of the Neck of the Femur, The High Geometric Osteotomy, with Rotation and. A Preliminary Report. James A. Dickson 1005
Grafts, Flexor-Tendon, to the Finger and Thumb. Walter C. Graham 553
Grafts, Intramedullary Onlay, for Defects Resulting from Shattering Fractures. Frank G. Murphy .. 1068
Graft, The "Latch": A Combination of Inlay and Intramedullary Graft Which Is Self-Retaining. Peter-Cyrus Rizzo and Otto Lehmann 354
Grafts, Onlay Bone, without Screw or Tie Fixation and without Breaking down of the Fibrous Union, Treatment of Ununited Fractures by. Dallas B. Phemister 946
[**Graft, Trochanteric.**] Fusion of the Hip in Children. The Chandler Method. Charles N. Pease 874
Grafts, The Use of Parallel, and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis. End Results in Forty-one Cases. Tom Outland and Oscar Corn 163
[**Grafting, Bone-.**] Metacarpal Reconstruction. J. William Littler 723
[**Grafting, Bone-.**] Pseudarthrosis of the Long Bones. Isidoro Blumenfeld 97
Grafting Material, The Evaluation of Cortical and Cancellous Bone as. A Clinical and Experimental Study. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost 381
Growth of Bone, Organizers and the. Pierre Lacroix 292
Growth, Epiphyseal, The Effect of Roentgen Irradiation on. II. Experimental Studies upon the Dog. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr 853
Growth, Epiphyseal, about the Knee Joint, Unclassified Premature Cessation of. Otto C. Kestler 788
Growth, Skeletal, Vitamin-A Deficiency and Excess in Relation to. S. Burt Wolbach 171

H

[**Half-Cylinder Grafts.**] Reconstruction of Defects of the Tibia and Femur with Apposing Massive Grafts from the Affected Bone. John J. Flanagan and Henry S. Burem 587
[**Hamstring Muscles,** Contracture of.] Muscle Fibrodystrophy. A Syndrome Causing Chronic Physical Disability. Robert Bingham 85
[**Hand.**] Flexor-Tendon Grafts to the Finger and Thumb. Walter C. Graham 553
[**Hand.**] Metacarpal Reconstruction. J. William Littler 723
[**Hand.**] Mobilization of Metacarpophalangeal Joints. Arthroplasty and Capsulotomy. Samuel Benjamin Fowler 193
[**Hand.**] An Operation for Old Unreduced Bennett's Fracture. John R. Vasko 753
Hand, Tendinous Reconstruction of the, Following Irreparable Injury to the Peripheral Nerves and Brachial Plexus. C. A. Luckey and S. R. McPherson 560
[**Hand.**] The Transfer of Wrist Extensor Muscles to Restore or Reinforce Flexion Power of the Fingers and Opposition of the Thumb. George S. Phalen and Richard C. Miller 993
Hand, Transposition of Fingers in Severe Injuries of the. Walter C. Graham, J. Barrett Brown, Bradford Cannon, and Daniel C. Riordan 998
Hand Surgery. Presidential Address. [American Society for Surgery of the Hand.] Sterling Bunnell. 824
Handy Pin Inserter, A. George R. Dawson, Jr. 526
[**Hardness of Metal,** Uniform.] Fixation of Bones by Plates and Screws. Leonard T. Peterson 335
Healing Time, An End-Result Study of the. Bone Grafts. W. A. Bishop, Jr., Richard C. Stauffer, and Alvin L. Swenson 961

PAGE

[**Heel.**] Xanthoma of the Achilles Tendon. Morris S. Friedman ... 760

Hein, Barney James ... 1107

Hemostatic Agents in Operative Procedures on Bones and Joints, The Use of Absorbable Substances to Obliterate Bone Cavities and as. Joseph Buchman and John E. Blair ... 650

[**Heparinization.**] Primary Arterial Injury Complicating Extremity Fractures. Donald W. Hedrick, F. B. Hawkins, and C. O. Townley ... 738

High Geometric Osteotomy, with Rotation and Bone Graft, for Ununited Fractures of the Neck of the Femur, The. A Preliminary Report. James A. Dickson ... 1005

Hip, Arthrodesis of the, for Ununited Fractures. [Symposium.] A. Bruce Gill ... 305

Hip, Arthroplasty of the, for Congenital Dislocation in Children. Paul C. Colonna ... 711

[**Hip.**] Complications of Fractures of the Neck of the Femur. [Symposium.] H. B. Boyd and I. L. George ... 13

[**Hip.**] Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law ... 41

Hip, Functional Aspects of the Abductor Muscles of the. Verne T. Inman ... 607

Hip, Fusion of the, in Children. The Chandler Method. Charles N. Pease ... 874

[**Hip.**] The High Geometric Osteotomy, with Rotation and Bone Graft, for Ununited Fractures of the Neck of the Femur. A Preliminary Report. James A. Dickson ... 1005

[**Hip.**] Intertrochanteric Fractures of the Femur. A Survey of Treatment in Traction and by Internal Fixation. Mather Cleveland, David M. Bosworth, and Frederick R. Thompson ... 1049

Hip, A Modification of the Blade-Plate for the Treatment of Intertrochanteric Fractures of the. Robert Glen Bronson ... 537

[**Hip.**] Oblique Subcervical (Reverse Intertrochanteric) Fractures of the Femur. Louis T. Wright ... 707

[**Hip.**] Osteosynthesis of Intertrochanteric and Pertrochanteric Fractures of the Femur. Hugo Aronsson ... 637

[**Hip.**] The Pathology of Ununited Fractures of the Neck of the Femur. [Symposium.] Mary S. Sherman and D. B. Phemister ... 19

Hip, Primary Congenital Subluxation of the. Jacques Leveuf ... 149

[**Hip.**] A Sling for Use in Legg-Perthes Disease. Clarence H. Snyder ... 524

[**Hip.**] Spina Bifida Aperta and Congenital Stricture of the Spinal Canal. Münir A. Sarpyener ... 817

[**Hip.**] Trochanteric Arthroplasty in the Treatment of Ununited Fractures of the Neck of the Femur. [Symposium.] Philip D. Wilson ... 313

Hip, Tuberculosis of the, in Children. Certain Roentgenographic Manifestations, Secondary Changes in the Extremity, and Some Suggestions for a Program of Therapy. H. R. McCarroll and R. D. Heath 889

[**Hip.**] Unclassified Premature Cessation of Epiphyseal Growth about the Knee Joint. Otto C. Kestler ... 788

[**Hip.**] The Whitman Reconstruction Operation for Complications of Fracture of the Neck of the Femur. [Symposium.] Arthur Krida ... 310

[**Hip Disease.**] Immobilization with Bone Grafts in the Treatment of Tuberculosis of the Joints and Pott's Disease. Etienne Sorrel and Madame Sorrel-Dejerine ... 603

Hip Joint, Arthrodesis of the, in Degenerative Arthritis. A Modified One-Stage Procedure with Internal Fixation. James A. Dickson and Leon J. Willien ... 687

Hip-Nailing Operations, A Simple Leg Holder for. Edward Parnall ... 536

Homogenous Bone Grafts, The Use of. A Preliminary Report on the Bone Bank. Leonard F. Bush ... 620

Human Locomotion, The Definition of, on the Basis of Measurement. With Description of Oscillographic Method. R. Plato Schwartz and Arthur L. Heath ... 203

Humeral Epiphysis, Proximal, Humerus Varus Following Birth Injury to the. Leo S. Lucas and Joseph H. Gill ... 367

Humerus, Arthroplasty of the Elbow by Replacement of the Distal Portion of the, with an Acrylic Prosthesis. Richard H. Mellen and George S. Phalen ... 348

[**Humerus.**] Diagnosis and Treatment of Tardy Paralysis of the Ulnar Nerve. Based on a Study of 100 Cases. James R. Gay and J. Grafton Love ... 1087

Humerus Fractures, Combined Lesions of Radial Nerves and. Internal Fixation of Bone and Neurorrhaphy. William K. Massie and Arthur Ecker ... 977

[**Humerus.**] Osteochondritis of the Supratrochlear Septum. Report of a Case. W. T. Ross ... 514

[**Humerus.**] Recurrent Posterior Dislocation of the Shoulder. J. C. R. Hindenach ... 582

[**Humerus.**] Roentgenographic Features of Metastases of a Retinoblastoma to the Long Bones. Report of a Case. Ralph E. Rowen ... 805

Humerus Varus Following Birth Injury to the Proximal Humeral Epiphysis. Leo S. Lucas and Joseph H. Gill ... 367

Hyperostosis, Infantile Cortical. Douglas D. Dickson, Clarence A. Luckey, and Noble H. Logan ... 224

PAGE

Hyperplasia, Parathyroid, Report of a Case Without, and With Ureteritis Cystica. Renal Osteitis Fibrosa Superimposed on Senile Osteoporosis. George W. Cottrell ... 491
[Hypertonicity.] The Peripheral Disease of Poliomyelitis. John F. Pohl ... 1027
[Hypertrophic Arthritis, Chronic.] Arthrodesis of the Hip Joint in Degenerative Arthritis. A Modified One-Stage Procedure with Internal Fixation. James A. Dickson and Leon J. Willien ... 687
[Hypervitaminosis.] Vitamin-A Deficiency and Excess in Relation to Skeletal Growth. S. Burt Wolbach 171

I

Idiopathic Scoliosis. A Method of Correction. Goronwy E. Thomas ... 907
Idiopathic Scoliosis, The Use of Parallel Grafts and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of. End Results in Forty-one Cases. Tom Outland and Oscar Corn ... 163
[Iliac Graft.] The Evaluation of Cortical and Cancellous Bone as Grafting Material. A Clinical and Experimental Study. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost ... 381
Ilium, Primary Lymphangioma of the. Report of a Case. William H. Bickel and Albert C. Broders ... 517
Immobilization with Bone Grafts in the Treatment of Tuberculosis of the Joints and Pott's Disease. Etienne Sorrel and Madame Sorrel-Dejerine ... 603
Improved Retractor for Intervertebral-Disc Surgery, An. Michael Skovron ... 247
Improved Rotating Stirrup for Use in the Treatment of Fractures of the Femur with Skeletal Traction, An. Gerald G. Gill ... 531
Improved Skin-Traction Technique for the Fingers, An. Hartwin A. Schulze ... 222
[Incision, Posterolateral.] The Posterolateral Approach to the Femur. George H. Marcy ... 676
Index Finger, Calcareous Deposits in Soft Tissues about the Proximal Interphalangeal Joint of the. Report of a Case. Anthony F. DePalma ... 808
Infantile Cortical Hyperostosis. Douglas D. Dickson, Clarence A. Luckey, and Noble H. Logan ... 224
Infantile Paralysis, Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in. A Method of Predicting the Effect. William T. Green and Margaret Anderson 659
[Infantile Paralysis.] External Rotation of the Leg in Poliomyelitis. Samuel C. Yachnin ... 415
[Infantile Paralysis.] Fascial Repair for Poliomyelitic Paralysis of the Abdominal Wall in Adults. George T. Wallace and William J. West ... 1031
[Infantile Paralysis.] Muscle Fibrodystrophy. A Syndrome Causing Chronic Physical Disability. Robert Bingham ... 85
[Infantile Paralysis.] The Newer Pathological and Physiological Concepts of Anterior Poliomyelitis and Their Clinical Interpretation. Arthur Steindler ... 59
[Infantile Paralysis.] The Peripheral Disease of Poliomyelitis. John F. Pohl ... 1027
Infection, *Cryptococcus neoformans* (Torulosis) of Bone. Report of a Case. Claran H. Jesse ... 810
[Infection.] Osteomyelitis Caused by *Salmonella typhimurium.* Ruth F. Krauss ... 227
Infection, Salmonella, Involving the Knee Joint. Report of a Case. Theodore H. Vinke and Harold F. Downing ... 232
Injury, Birth, to the Proximal Humeral Epiphysis, Humerus Varus Following. Leo S. Lucas and Joseph H. Gill ... 367
Injuries to the Intervertebral Disc, Anatomicophysiological Aspects of. [Symposium.] Verne T. Inman and J. B. deC. M. Saunders ... 461
Injury, Irreparable, to the Peripheral Nerves and Brachial Plexus, Tendinous Reconstruction of the Hand Following. C. A. Luckey and S. R. McPherson ... 560
Injuries, Meniscus, The Diagnosis of. Some New Clinical Methods. A. Graham Apley ... 78
Injury, Primary Arterial, Complicating Extremity Fractures. Donald W. Hedrick, F. B. Hawkins, and C. O. Townley ... 738
Injuries, Severe, of the Hand, Transposition of Fingers in. Walter C. Graham, J. Barrett Brown, Bradford Cannon, and Daniel C. Riordan ... 998
Injuries to the Tarsal Navicular, The Treatment of. A. Jackson Day ... 359
Inlay and Intramedullary Graft, A Combination of, Which Is Self-Retaining. The "Latch" Graft: Peter-Cyrus Rizzo and Otto Lehmann ... 354
Instrument for Use in the Bankart Operation for Recurrent Dislocation of the Shoulder, An. George I. Reiss ... 812
Instruments
Efficient Dual-Purpose Retractor, An. Peter-Cyrus Rizzo ... 240
Handy Pin Inserter, A. George R. Dawson, Jr. ... 526
Improved Retractor for Intervertebral-Disc Surgery, An. Michael Skovron ... 247
Modification of Cast Spreader. Fred A. Polesky ... 249

PAGE

Instruments (*continued*)
Motor-Driven Screw Holder and Screw Driver, A. George R. Dawson, Jr. ... 527
Osteosynthesis of Intertrochanteric and Pertrochanteric Fractures of the Femur. Hugo Aronsson 637
[**Insufficiency Fractures.**] March Fractures. A Study with Special Reference to Etiological Factors. James G. Donald and William T. Fitts, Jr. ... 297
Interdigital Clavus (Soft Corn), Painful. Treatment by Skin-Plastic Operation. Edward J. Haboush and Robert V. Martin ... 756
Interlocking Grafts, Two-Stage and Three-Stage, The Use of Parallel Grafts and of, in the Treatment of Idiopathic Scoliosis. End Results in Forty-one Cases. Tom Outland and Oscar Corn ... 163
Internal Fixation of Bone and Neurorrhaphy. Combined Lesions of Radial Nerves and Humerus Fractures. William K. Massie and Arthur Ecker ... 977
Internal Fixation, A Modified One-Stage Procedure with. Arthrodesis of the Hip Joint in Degenerative Arthritis. James A. Dickson and Leon J. Willien ... 687
Internal Fixation, A Survey of Treatment in Traction and by. Intertrochanteric Fractures of the Femur. Mather Cleveland, David M. Bosworth, and Frederick R. Thompson ... 1049
International College of Surgeons ... 823
International Society of Orthopaedic Surgery and Traumatology ... 254, 828
[**Internuncial-Cell Lesion.**] The Newer Pathological and Physiological Concepts of Anterior Poliomyelitis and Their Clinical Interpretation. Arthur Steindler ... 59
Interphalangeal Joint, Proximal, of the Index Finger, Calcareous Deposits in Soft Tissues about the. Report of a Case. Anthony F. DePalma ... 808
[**Intertrochanteric Fractures.**] Blade-Plate Fixation. Report of a Case. Irwin A. Jaslow ... 814
Intertrochanteric Fractures of the Femur. A Survey of Treatment in Traction and by Internal Fixation. Mather Cleveland, David M. Bosworth, and Frederick R. Thompson ... 1049
Intertrochanteric Fractures of the Hip, A Modification of the Blade-Plate for the Treatment of. Robert Glen Bronson ... 537
[**Intertrochanteric-Mold Arthroplasty.**] Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law ... 41
Intertrochanteric and Pertrochanteric Fractures of the Femur, Osteosynthesis of. Hugo Aronsson ... 637
(**Intertrochanteric, Reverse**), Oblique Subcervical, Fractures of the Femur. Louis T. Wright ... 707
[**Intervertebral Disc.**] An Analysis and Differentiation of Low-Back Pain in Relation to the Disc Factor. [Symposium.] Arthur Steindler ... 455
Intervertebral Disc, Anatomicophysiological Aspects of Injuries to the. [Symposium.] Verne T. Inman and J. B. deC. M. Saunders ... 461
[**Intervertebral Disc.**] The Disc Factor in Low-Back Pain With or Without Sciatica. [Symposium.] J. Grafton Love ... 438
Intervertebral Disc, End-Result Study of the. [Symposium.] Raymond E. Lenhard ... 425
[**Intervertebral Disc.**] Laminectomy and Foraminotomy with Chip Fusion. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Henry Briggs and Sidney Keats ... 328
[**Intervertebral Disc.**] Observations on Obscure Mechanisms of Nerve-Root Compression with a Diagnostic Tap Test. Report of Two Cases. Henry Briggs and Sidney Keats ... 758
Intervertebral Discs, Pathological Studies of. [Symposium.] Charles Eckert and Alfred Decker ... 447
Intervertebral Disc, Ruptured, and Sciatic Pain. [Symposium.] Joseph S. Barr ... 429
Intervertebral-Disc Surgery, An Improved Retractor for. Michael Skovron ... 247
Intervertebral Disc, Symposium on the. Introduction. Arthur G. Davis ... 424
Intervertebral Disc, Symposium on the. [The American Orthopaedic Association.]
Barr, Joseph S. ... 429
Davis, Arthur G. ... 424
Eckert, Charles, and Decker, Alfred ... 447
Inman, Verne T., and Saunders, J. B. deC. M. ... 461
Lenhard, Raymond E. ... 425
Love, J. Grafton ... 438
Steindler, Arthur ... 455
Discussion
Hallock, Halford ... 475
Mixter, William Jason ... 468
Willis, Theodore A. ... 469
Woodhall, Barnes ... 470

PAGE

[**Intervertebral Foramina.**] Backward Displacement of Fifth Lumbar Vertebra in Degenerative Disc Disease. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae. Gilbert H. Fletcher ... 1019

Intervertebral Foraminotomy, Wedge Osteotomy of the Spine with Bilateral. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine. Henry Briggs, Sidney Keats, and Philip T. Schlesinger ... 1075

[**Intra-Articular Adhesions.**] Knee Movement Following Fractures of the Femoral Shaft. John Charnley 679

[**Intracapsular Fractures.**] The Pathology of Ununited Fractures of the Neck of the Femur. [Symposium.] Mary S. Sherman and D. B. Phemister ... 19

Intramedullary Graft, A Combination of Inlay and, Which Is Self-Retaining. The "Latch" Graft: Peter-Cyrus Rizzo and Otto Lehmann ... 354

Intramedullary Onlay Grafts for Defects Resulting from Shattering Fractures. Frank G. Murphy 1068

Irradiation, Roentgen, The Effect of, on Epiphyseal Growth. II. Experimental Studies upon the Dog. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr ... 853

Ischium, Ununited Epiphysis of the. Report of a Case. Harry Winkler and Ira H. Rapp ... 234

J

Jaw Forceps, Slotted, for Bone-Plating. S. Perry Rogers ... 1100

John and Mary R. Markle Foundation, The ... 1101

Joint, Adjacent, Osteoid Osteoma Associated with Changes in. Report of Two Cases. Mary S. Sherman 483

Joints, Bones and, The Use of Absorbable Substances to Obliterate Bone Cavities and as Hemostatic Agents in Operative Procedures on. Joseph Buchman and John E. Blair ... 650

[**Joint Fusion.**] The Evaluation of Cortical and Cancellous Bone as Grafting Material. A Clinical and Experimental Study. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost ... 381

Joint, Hip, Arthrodesis of the, in Degenerative Arthritis. A Modified One-Stage Procedure with Internal Fixation. James A. Dickson and Leon J. Willien ... 687

[**Joint, Knee.**] External Rotation of the Leg in Poliomyelitis. Samuel C. Yachnin ... 415

Joint, Knee, Human, Absorption of Trypan Blue from the. R. L. deC. H. Saunders and E. Gordon Young ... 301

Joint, Knee, Salmonella Infection Involving the. Report of a Case. Theodore H. Vinke and Harold F. Downing ... 232

Joint, Knee, Unclassified Premature Cessation of Epiphyseal Growth about the. Otto C. Kestler ... 788

Joint Mechanics, The Relation of Discoid Meniscus to Cyst Formation and. J. Kulowski and H. W. Rickett ... 990

Joints, Metacarpophalangeal, Mobilization of. Arthroplasty and Capsulotomy. Samuel Benjamin Fowler ... 193

Joint, Proximal Interphalangeal, of the Index Finger, Calcareous Deposits in Soft Tissues about the. Report of a Case. Anthony F. DePalma ... 808

Joints, Tuberculosis of the, and Pott's Disease, Immobilization with Bone Grafts in the Treatment of. Etienne Sorrel and Madame Sorrel-Dejerine ... 603

K

[**Knee.**] Chondromalacia Patellae. Jacob Bronitsky ... 931

[**Knee.**] Congenital Dislocation of the Patella. Case Report with History of Four Generations. E. B. Mumford ... 1083

[**Knee.**] The Diagnosis of Meniscus Injuries. Some New Clinical Methods. A. Graham Apley ... 78

Knee Movement Following Fractures of the Femoral Shaft. John Charnley ... 679

[**Knee.**] Operative Treatment of Paralytic Genu Recurvatum. Clarence H. Heyman ... 644

[**Knee.**] Ossifications Associated with Chronic Strain of the Tibial Collateral Ligament from Roller-Skating. Edmund W. Klinefelter ... 237

[**Knee.**] The Relation of Discoid Meniscus to Cyst Formation and Joint Mechanics. J. Kulowski and H. W. Rickett ... 990

[**Knee.**] Rupture of the Popliteal Fascia. Howard R. Dudgeon, Jr. ... 522

[**Knee Joint.**] External Rotation of the Leg in Poliomyelitis. Samuel C. Yachnin ... 415

Knee Joint, Human, Absorption of Trypan Blue from the. R. L. deC. H. Saunders and E. Gordon Young ... 301

Knee Joint, Salmonella Infection Involving the. Report of a Case. Theodore H. Vinke and Harold F. Downing ... 232

Knee Joint, Unclassified Premature Cessation of Epiphyseal Growth about the. Otto C. Kestler ... 788

[**Knock-Knee.**] Renal Rickets. Report of a Case. J. L. Richardson ... 503

PAGE

L

[**Labrium Glenoidale.**] Recurrent Posterior Dislocation of the Shoulder. J. C. R. Hindenach 582
Lagomarsino, Enrique H. 253
[**Laminectomy.**] An Analysis and Differentiation of Low-Back Pain in Relation to the Disc Factor. [Symposium.] Arthur Steindler 455
Laminectomy and Foraminotomy with Chip Fusion. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Henry Briggs and Sidney Keats 328
"Latch" Graft, The: A Combination of Inlay and Intramedullary Graft Which Is Self-Retaining. Peter-Cyrus Rizzo and Otto Lehmann 354
Leg, External Rotation of the, in Poliomyelitis. Samuel C. Yachnin 415
Leg Holder, A Simple, for Hip-Nailing Operations. Edward Parnall 536
Legg-Perthes Disease, A Sling for Use in. Clarence H. Snyder 524
Length of the Lower Extremities in Infantile Paralysis, Experiences with Epiphyseal Arrest in Correcting Discrepancies in. A Method of Predicting the Effect. William T. Green and Margaret Anderson 659
[**Ligaments, Collateral,** Reconstruction of.] Operative Treatment of Paralytic Genu Recurvatum. Clarence H. Heyman 644
Ligament, Tibial Collateral, Ossifications Associated with Chronic Strain of the, from Roller-Skating. Edmund W. Klinefelter 237
Limbs in Traction, A Method of Offsetting the External Rotation of. Robert M. Rose 535
[**Limbus.**] Primary Congenital Subluxation of the Hip. Jacques Leveuf 149
Locomotion, Human, The Definition of, on the Basis of Measurement. With Description of Oscillographic Method. R. Plato Schwartz and Arthur L. Heath 203
Long-Bone Deformities, A Method for Correcting. Osteotomy-Osteoclasis. John Royal Moore 119
Long Bones, Painful, Non-Suppurative, Localized Sclerosis of the. With a Report of Two Cases. William Mackenzie 49
Long Bones, Pseudarthrosis of the. Isidoro Blumenfeld 97
Long Bones, Roentgenographic Features of Metastases of a Retinoblastoma to the. Report of a Case. Ralph E. Rowen 805
[**Loose Bodies.**] Chondromalacia Patellae. Jacob Bronitsky 931
[**Loose Body.**] Osteochondritis Dissecans of the Talus. R. Beverley Ray and Edward J. Coughlin, Jr. 697
[**Loose Body.**] Osteochondritis of the Supratrochlear Septum. Report of a Case. W. T. Ross 514
Low-Back Pain in Relation to the Disc Factor, An Analysis and Differentiation of. [Symposium.] Arthur Steindler 455
Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis, Operative Treatment for the Relief of. Laminectomy and Foraminotomy with Chip Fusion. Henry Briggs and Sidney Keats 328
Low-Back Pain With or Without Sciatica, The Disc Factor in. [Symposium.] J. Grafton Love 438
Lower Extremities, Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the, in Infantile Paralysis. A Method of Predicting the Effect. William T. Green and Margaret Anderson 659
Lumbar Vertebra, Fifth, Backward Displacement of, in Degenerative Disc Disease. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae. Gilbert H. Fletcher 1019
[**Luxation.**] Congenital Dislocation of the Patella. Case Report with History of Four Generations. E. B. Mumford 1083
[**Luxation.**] Primary Congenital Subluxation of the Hip. Jacques Leveuf 149
[**Luxation.**] Recurrent Posterior Dislocation of the Shoulder. J. C. R. Hindenach 582
Lymphangioma, Primary, of the Ilium. Report of a Case. William H. Bickel and Albert C. Broders 517

M

Malignant Neoplasms Originating in Synovial Tissues (Synoviomata). A Study of Thirty-two Specimens Registered at the Army Institute of Pathology During the War-Time Period, 1941–1945. Granville A. Bennett 259
[**Malleoli.**] Fracture-Dislocation of the Ankle with Displacement of the Fibula Behind the Tibia. David M. Bosworth 130
[**Malleolus, Osteotomy of.**] Osteochondritis Dissecans of the Talus. R. Beverley Ray and Edward J. Coughlin, Jr. 697
[**Malum Coxae Senilis.**] Functional Aspects of the Abductor Muscles of the Hip. Verne T. Inman 607
[**Malunited Fractures.**] Osteotomy-Osteoclasis. A Method for Correcting Long-Bone Deformities. John Royal Moore 119

PAGE

March Fractures. A Study with Special Reference to Etiological Factors. James G. Donald and William T. Fitts, Jr. ... 297

Massive Grafts, Apposing, from the Affected Bone, Reconstruction of Defects of the Tibia and Femur with. John J. Flanagan and Henry S. Burem ... 587

Measurement, The Definition of Human Locomotion on the Basis of. With Description of Oscillographic Method. R. Plato Schwartz and Arthur L. Heath ... 203

[**Mechanical Defects,** Correction of.] The High Geometric Osteotomy, with Rotation and Bone Graft, for Ununited Fractures of the Neck of the Femur. A Preliminary Report. James A. Dickson ... 1005

Mechanics, Joint, The Relation of Discoid Meniscus to Cyst Formation and. J. Kulowski and H. W. Rickett ... 990

Mechanisms, Obscure, of Nerve-Root Compression with a Diagnostic Tap Test, Observations on. Report of Two Cases. Henry Briggs and Sidney Keats ... 758

[**Median-Nerve Paralysis.**] Tendinous Reconstruction of the Hand Following Irreparable Injury to the Peripheral Nerves and Brachial Plexus. C. A. Luckey and S. R. McPherson ... 560

Medical Schools, Modern, Orthopaedic Surgery and Its Place in the Department of Surgery in Our. [President's Address, The American Orthopaedic Association.] LeRoy C. Abbott ... 840

Medullary Defects, Calcified, in Bone. Albert Barnett Ferguson, Jr. ... 598

Meniscus, Discoid, The Relation of, to Cyst Formation and Joint Mechanics. J. Kulowski and H. W. Rickett ... 990

Meniscus Injuries, The Diagnosis of. Some New Clinical Methods. A. Graham Apley ... 78

[**Mesenchymal Tumors.**] Malignant Neoplasms Originating in Synovial Tissues (Synoviomata). A Study of Thirty-two Specimens Registered at the Army Institute of Pathology During the War-Time Period, 1941–1945. Granville A. Bennett ... 259

[**Metabolism of Cartilage.**] Cartilage and Chondroitin Sulphate. I. The Physiological Role of Chondroitin Sulphate in Cartilage. Bengt Sylvén ... 745

[**Metabolism of Cholesterol.**] Xanthoma of the Achilles Tendon. Morris S. Friedman ... 760

[**Metacarpals.**] An Improved Skin-Traction Technique for the Fingers. Hartwin A. Schulze ... 222

[**Metacarpal.**] An Operation for Old Unreduced Bennett's Fracture. John R. Vasko ... 753

Metacarpal Reconstruction. J. William Littler ... 723

[**Metacarpal.**] Transposition of Fingers in Severe Injuries of the Hand. Walter C. Graham, J. Barrett Brown, Bradford Cannon, and Daniel C. Riordan ... 998

Metacarpophalangeal Joints, Mobilization of. Arthroplasty and Capsulotomy. Samuel Benjamin Fowler ... 193

[**Metals, Use of.**] Fixation of Bones by Plates and Screws. Leonard T. Peterson ... 335

Metastases of a Retinoblastoma to the Long Bones, Roentgenographic Features of. Report of a Case. Ralph E. Rowen ... 805

[**Metatarsals.**] March Fractures. A Study with Special Reference to Etiological Factors. James G. Donald and William T. Fitts, Jr. ... 297

[**Methacrylate.**] Arthroplasty of the Elbow by Replacement of the Distal Portion of the Humerus with an Acrylic Prosthesis. Richard H. Mellen and George S. Phalen ... 348

Method of Correction, A. Idiopathic Scoliosis. Goronwy E. Thomas ... 907

Method of Offsetting the External Rotation of Limbs in Traction, A. Robert M. Rose ... 535

Miniature Galvanic Stimulator, A. James E. Bateman ... 241

Mobilization of Metacarpophalangeal Joints. Arthroplasty and Capsulotomy. Samuel Benjamin Fowler ... 193

Modification of the Blade-Plate for the Treatment of Intertrochanteric Fractures of the Hip, A. Robert Glen Bronson ... 537

Modification of Cast Spreader. Fred A. Polesky ... 249

Modification of the Denis Browne Splint. Michael Bluhm ... 248

Mold, Vitallium-, Arthroplasty, Results of Treatment by. Complications of Old Fractures of the Neck of the Femur. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law ... 41

[**Motion, Range of.**] Knee Movement Following Fractures of the Femoral Shaft. John Charnley ... 679

Motor-Driven Screw Holder and Screw Driver, A. George R. Dawson, Jr. ... 527

[**Motor Function.**] Tendinous Reconstruction of the Hand Following Irreparable Injury to the Peripheral Nerves and Brachial Plexus. C. A. Luckey and S. R. McPherson ... 560

Murray, Clay Ray ... 1107

Muscles, Abductor, of the Hip, Functional Aspects of the. Verne T. Inman ... 607

Muscle Fibrodystrophy. A Syndrome Causing Chronic Physical Disability. Robert Bingham ... 85

[**Muscle Imbalance.**] The Peripheral Disease of Poliomyelitis. John F. Pohl ... 1027

PAGE

[**Muscle Power.**] Fascial Repair for Poliomyelitic Paralysis of the Abdominal Wall in Adults. George T. Wallace and William J. West . . . 1031

Muscles, Wrist Extensor, The Transfer of, to Restore or Reinforce Flexion Power of the Fingers and Opposition of the Thumb. George S. Phalen and Richard C. Miller . . . 993

N

Nailing, Hip-, Operations, A Simple Leg Holder for. Edward Parnall . . . 536

National Foundation for Infantile Paralysis, Inc., The . . . 254, 1101

National Research Council, The Functions and Activities of the Committee on Artificial Limbs of the. A Preliminary Report. Paul E. Klopsteg . . . 538

National Society for Crippled Children and Adults, Inc., The . . . 254, 1101

Navicular, Tarsal, The Treatment of Injuries to the. A. Jackson Day . . . 359

Neck of the Femur, Complications of Fractures of the. [Symposium.] H. B. Boyd and I. L. George . . . 13

Neck of the Femur, Complications of Old Fractures of the. Results of Treatment by Vitallium-Mold Arthroplasty. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law . . . 41

Neck of the Femur, Fracture of the, The Whitman Reconstruction Operation for Complications of. [Symposium.] Arthur Krida . . . 310

Neck of the Femur, The Pathology of Ununited Fractures of the. [Symposium.] Mary S. Sherman and D. B. Phemister . . . 19

Neck of the Femur, Symposium on the Complications of Old Fractures of the, and Their Treatment. [The American Orthopaedic Association.]

Boyd, H. B., and George, I. L. . . . 13
Gill, A. Bruce . . . 305
Krida, Arthur . . . 310
Sherman, Mary S., and Phemister, D. B. . . . 19
Smith-Petersen, M. N.; Larson, Carroll B.; Aufranc, Otto E.; and Law, W. Alexander . . . 41
Wilson, Philip D. . . . 313

Discussion

Badgley, Carl E. . . . 326
Blount, Walter P. . . . 822
Colonna, Paul C. . . . 327
Platt, Harry . . . 326

Neck of the Femur, Trochanteric Arthroplasty in the Treatment of Ununited Fractures of the. [Symposium.] Philip D. Wilson . . . 313

Neck of the Femur, Ununited Fractures of the, The High Geometric Osteotomy, with Rotation and Bone Graft, for. A Preliminary Report. James A. Dickson . . . 1005

Neoplasms, Malignant, Originating in Synovial Tissues (Synoviomata). A Study of Thirty-two Specimens Registered at the Army Institute of Pathology During the War-Time Period, 1941–1945. Granville A. Bennett . . . 259

[**Neoplasm.**] Osteoid Osteoma. Review of the Literature and Report of Thirty Cases. Mary S. Sherman . . . 918

[**Neoplastic Formation,** Benign.] Osteoid Osteoma. Ignacio Ponseti and Chester K. Barta . . . 767

Nerves, Peripheral, and Brachial Plexus, Tendinous Reconstruction of the Hand Following Irreparable Injury to the. C. A. Luckey and S. R. McPherson . . . 560

Nerves, Radial, and Humerus Fractures, Combined Lesions of. Internal Fixation of Bone and Neurorrhaphy. William K. Massie and Arthur Ecker . . . 977

Nerve-Root Compression, Observations on Obscure Mechanisms of, with a Diagnostic Tap Test. Report of Two Cases. Henry Briggs and Sidney Keats . . . 758

[**Nerve-Root Pressure.**] Backward Displacement of Fifth Lumbar Vertebra in Degenerative Disc Disease. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae. Gilbert H. Fletcher . . . 1019

[**Nerve-Root Pressure.**] Laminectomy and Foraminotomy with Chip Fusion. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Henry Briggs and Sidney Keats . . . 328

[**Nerve-Root Pressure.**] Wedge Osteotomy of the Spine with Bilateral Intervertebral Foraminotomy. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine. Henry Briggs, Sidney Keats, and Philip T. Schlesinger . . . 1075

[**Nerve Therapy.**] A Miniature Galvanic Stimulator. James E. Bateman . . . 241

Nerve, Ulnar, Diagnosis and Treatment of Tardy Paralysis of the. Based on a Study of 100 Cases. James R. Gay and J. Grafton Love . . . 1087

[**Neurogenic Hypertonicity.**] The Peripheral Disease of Poliomyelitis. John F. Pohl . . . 1027

PAGE

[**Neuroma.**] Diagnosis and Treatment of Tardy Paralysis of the Ulnar Nerve. Based on a Study of 100 Cases. James R. Gay and J. Grafton Love ... 1087

Neurorrhaphy, Internal Fixation of Bone and. Combined Lesions of Radial Nerves and Humerus Fractures. William K. Massie and Arthur Ecker ... 977

[**Neurotripsy.**] The Newer Pathological and Physiological Concepts of Anterior Poliomyelitis and Their Clinical Interpretation. Arthur Steindler ... 59

New Jersey Orthopaedic Society ... 254

New York City, A Review of the Evolution of the Orthopaedic Branch of Surgery in. Royal Whitman ... 250

Newer Pathological and Physiological Concepts of Anterior Poliomyelitis and Their Clinical Interpretation, The. Arthur Steindler ... 59

News Notes ... 254, 542, 823, 1101

[**90–90–90 Traction.**] The Posterolateral Approach to the Femur. George H. Marcy ... 676

[**Non-Osseous Defects.**] Calcified Medullary Defects in Bone. Albert Barnett Ferguson, Jr. ... 598

Non-Suppurative, Painful, Localized Sclerosis of the Long Bones. With a Report of Two Cases. William Mackenzie ... 49

[**Non-Union.**] Arthrodesis of the Hip for Ununited Fractures. A. Bruce Gill ... 305

[**Non-Union.**] Bone Grafts. An End-Result Study of the Healing Time. W. A. Bishop, Jr., Richard C. Stauffer, and Alvin L. Swenson ... 961

[**Non-Union.**] Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law ... 41

[**Non-Union of Fractures.**] Pseudarthrosis of the Long Bones. Isidoro Blumenfeld ... 97

[**Non-Union.**] The High Geometric Osteotomy, with Rotation and Bone Graft, for Ununited Fractures of the Neck of the Femur. A Preliminary Report. James A. Dickson ... 1005

[**Non-Union.**] Internal Fixation of Bone and Neurorrhaphy. Combined Lesions of Radial Nerves and Humerus Fractures. William K. Massie and Arthur Ecker ... 977

[**Non-Union.**] Intramedullary Onlay Grafts for Defects Resulting from Shattering Fractures. Frank G. Murphy ... 1068

[**Non-Union.**] The Pathology of Ununited Fractures of the Neck of the Femur. [Symposium.] Mary S. Sherman and D. B. Phemister ... 19

[**Non-Union of Radius.**] The Repair of Defects of the Radius with Fibular Bone Grafts. Richard C. Miller and George S. Phalen ... 629

[**Non-Union.**] Reconstruction of Defects of the Tibia and Femur with Apposing Massive Grafts from the Affected Bone. John J. Flanagan and Henry S. Burem ... 587

[**Non-Union.**] Treatment of Ununited Fractures by Onlay Bone Grafts without Screw or Tie Fixation and without Breaking down of the Fibrous Union. Dallas B. Phemister ... 946

[**Non-Union.**] The Whitman Reconstruction Operation for Complications of Fracture of the Neck of the Femur. Arthur Krida ... 310

Nucleus Pulposus. *See* **Intervertebral Disc.**

O

Obituaries

Barney James Hein ... 1107

Enrique H. Lagomarsino ... 253

Clay Ray Murray ... 1107

William Barnett Owen ... 821

Charles Fairbank Painter ... 540

Oblique Subcervical (Reverse Intertrochanteric) Fractures of the Femur. Louis T. Wright ... 707

Observations on Obscure Mechanisms of Nerve-Root Compression with a Diagnostic Tap Test. Report of Two Cases. Henry Briggs and Sidney Keats ... 758

[**Obturator-Nerve Section.**] Fusion of the Hip in Children. The Chandler Method. Charles N. Pease ... 874

[**Olecranon Fossa.**] Osteochondritis of the Supratrochlear Septum. Report of a Case. W. T. Ross ... 514

One-Stage Procedure, A Modified, with Internal Fixation. Arthrodesis of the Hip Joint in Degenerative Arthritis. James A. Dickson and Leon J. Willien ... 687

Onlay Bone Grafts without Screw or Tie Fixation and without Breaking down of the Fibrous Union, Treatment of Ununited Fractures by. Dallas B. Phemister ... 946

Onlay Grafts, Intramedullary, for Defects Resulting from Shattering Fractures. Frank G. Murphy ... 1068

Operations, Hip-Nailing, A Simple Leg Holder for. Edward Parnall ... 536

Operation for Old Unreduced Bennett's Fracture, An. John R. Vasko ... 753

Operations, Open and Closed, With Special Reference to Reduction by. Fracture-Dislocation of the Thoracolumbar Spine. J. Kenneth Stanger ... 107

PAGE

Operation, A Preliminary Report of a New. Arthrodesis of the Elbow. Moses Gellman 850
Operation, Skin Plastic, Treatment by. Painful Interdigital Clavus (Soft Corn). Edward J. Haboush and Robert V. Martin 756
Operation, The Whitman Reconstruction, for Complications of Fracture of the Neck of the Femur. Arthur Krida 310
Operative Procedures on Bones and Joints, The Use of Absorbable Substances to Obliterate Bone Cavities and as Hemostatic Agents in. Joseph Buchman and John E. Blair 650
Operative Treatment of Paralytic Genu Recurvatum. Clarence H. Heyman 644
Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Laminectomy and Foraminotomy with Chip Fusion. Henry Briggs and Sidney Keats .. 328
Opposition of the Thumb, The Transfer of Wrist Extensor Muscles to Restore or Reinforce Flexion Power of the Fingers and. George S. Phalen and Richard C. Miller 993
Organizers and the Growth of Bone. Pierre Lacroix 292
Orthopaedic Branch of Surgery in New York City, A Review of the Evolution of the. Royal Whitman 250
Orthopaedic Surgeons, Education and Certification of, in the United States. [Presidential Address, The American Orthopaedic Association.] J. Albert Key 1
Orthopaedic Surgery and Its Place in the Department of Surgery in Our Modern Medical Schools. [President's Address, The American Orthopaedic Association.] LeRoy C. Abbott 840
Oscillographic Method, With Description of. The Definition of Human Locomotion on the Basis of Measurement. R. Plato Schwartz and Arthur Heath 203
[**Osseous Inflammatory Lesion.**] Infantile Cortical Hyperostosis. Douglas D. Dickson, Clarence A. Luckey, and Noble H. Logan 224
Ossifications Associated with Chronic Strain of the Tibial Collateral Ligament from Roller-Skating. Edmund W. Klinefelter 237
Ossification of Cartilage, Physiological, II. Chondroitin Sulphate and the. Cartilage and Chondroitin Sulphate. Bengt Sylvén 973
[**Ossification Groove.**] Organizers and the Growth of Bone. Pierre Lacroix 292
[**Ossifying Hematoma.**] Subperiosteal Giant-Cell Tumor. Report of a Case. John T. Hodgen and Charles H. Frantz 781
Osteitis Fibrosa, Renal, Superimposed on Senile Osteoporosis. Report of a Case Without Parathyroid Hyperplasia and With Ureteritis Cystica. George W. Cottrell 491
Osteitis Pubis. Norborne B. Powell 785
[**Osteochondritis.**] Chondromalacia Patellae. Jacob Bronitsky 931
[**Osteochondritis Deformans Juvenilis.**] A Sling for Use in Legg-Perthes Disease. Clarence H. Snyder 524
Osteochondritis Dissecans of the Talus. R. Beverley Ray and Edward J. Coughlin, Jr. 697
Osteochondritis of the Supratrochlear Septum. Report of a Case. W. T. Ross 514
Osteoclasis, Osteotomy-. A Method for Correcting Long-Bone Deformities. John Royal Moore 119
[**Osteogenesis.**] Organizers and the Growth of Bone. Pierre Lacroix 292
[**Osteogenic Sarcoma.**] Survival in Bone Sarcoma. Harry Platt 6
Osteoid Osteoma. Ignacio Ponseti and Chester K. Barta 767
Osteoid Osteoma Associated with Changes in Adjacent Joint. Report of Two Cases. Mary S. Sherman 483
[**Osteoid Osteoma.**] Painful, Non-Suppurative, Localized Sclerosis of the Long Bones. With a Report of Two Cases. William Mackenzie 49
Osteoid Osteoma. Review of the Literature and Report of Thirty Cases. Mary S. Sherman 918
Osteoid Osteoma, Some Surgical Aspects of. George T. Wallace 777
Osteoma, Osteoid. Ignacio Ponseti and Chester K. Barta 767
Osteoma, Osteoid, Associated with Changes in Adjacent Joint. Report of Two Cases. Mary S. Sherman 483
[**Osteoma, Osteoid.**] Painful, Non-Suppurative, Localized Sclerosis of the Long Bones. With a Report of Two Cases. William Mackenzie 49
Osteoma, Osteoid. Review of the Literature and Report of Thirty Cases. Mary S. Sherman 918
Osteoma, Osteoid, Some Surgical Aspects of. George T. Wallace 777
Osteomyelitis Caused by *Salmonella typhimurium.* Ruth F. Krauss 227
[**Osteomyelitis, Chronic.**] The Use of Absorbable Substances to Obliterate Bone Cavities and as Hemostatic Agents in Operative Procedures on Bones and Joints. Joseph Buchman and John E. Blair 650
[**Osteomyelitis, Sclerosing.**] Painful, Non-Suppurative, Localized Sclerosis of the Long Bones. With a Report of Two Cases. William Mackenzie 49
Osteoporosis, Senile, Renal Osteitis Fibrosa Superimposed on. Report of a Case Without Parathyroid Hyperplasia and With Ureteritis Cystica. George W. Cottrell 491
Osteosynthesis of Intertrochanteric and Pertrochanteric Fractures of the Femur. Hugo Aronsson ... 637

PAGE

Osteotomy, The High Geometric, with Rotation and Bone Graft, for Ununited Fractures of the Neck of the Femur. A Preliminary Report. James A. Dickson 1005
Osteotomy-Osteoclasis. A Method for Correcting Long-Bone Deformities. John Royal Moore 119
Osteotomy, Wedge, of the Spine with Bilateral Intervertebral Foraminotomy. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine. Henry Briggs, Sidney Keats, and Philip T. Schlesinger 1075
Owen, William Barnett 821
[**Oxidized Gauze.**] The Use of Absorbable Substances to Obliterate Bone Cavities and as Hemostatic Agents in Operative Procedures on Bones and Joints. Joseph Buchman and John E. Blair 650

P

Pad, Floor, for Foot-Exercising. Maurice H. Herzmark 1098
Pain, Low-Back, in Relation to the Disc Factor, An Analysis and Differentiation of. [Symposium.] Arthur Steindler 455
Pain, Low-Back, With or Without Sciatica, The Disc Factor in. [Symposium.] J. Grafton Love 438
Pain, Sciatic, Low-Back Pain and, Associated with Spondylolisthesis, Operative Treatment for the Relief of. Laminectomy and Foraminotomy with Chip Fusion. Henry Briggs and Sidney Keats 328
Pain, Sciatic, Ruptured Intervertebral Disc and. [Symposium.] Joseph S. Barr 429
Painful Interdigital Clavus (Soft Corn). Treatment by Skin-Plastic Operation. Edward J. Haboush and Robert V. Martin 756
Painful, Non-Suppurative, Localized Sclerosis of the Long Bones. With a Report of Two Cases. William Mackenzie 49
Painter, Charles Fairbank 540
Parallel Grafts, The Use of, and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis. End Results in Forty-one Cases. Tom Outland and Oscar Corn 163
Paralysis, Infantile, Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in, A Method of Predicting the Effect. William T. Green and Margaret Anderson 659
[**Paralysis, Infantile.**] External Rotation of the Leg in Poliomyelitis. Samuel C. Yachnin 415
[**Paralysis, Infantile.**] Muscle Fibrodystrophy. A Syndrome Causing Chronic Physical Disability. Robert Bingham 85
[**Paralysis, Infantile.**] The Newer Pathological and Physiological Concepts of Anterior Poliomyelitis and Their Clinical Interpretation. Arthur Steindler 59
[**Paralysis, Infantile.**] The Peripheral Disease of Poliomyelitis. John F. Pohl 1027
Paralysis, Poliomyelitic, of the Abdominal Wall in Adults, Fascial Repair for. George T. Wallace and William J. West 1031
Paralysis, Tardy, of the Ulnar Nerve, Diagnosis and Treatment of. Based on a Study of 100 Cases. James R. Gay and J. Grafton Love 1087
[**Paralysis.**] Tendinous Reconstruction of the Hand Following Irreparable Injury to the Peripheral Nerves and Brachial Plexus. C. A. Luckey and S. R. McPherson 560
Paralytic Genu Recurvatum, Operative Treatment of. Clarence H. Heyman 644
[**Paraplegia.**] Fracture-Dislocation of the Thoracolumbar Spine. With Special Reference to Reduction by Open and Closed Operations. J. Kenneth Stanger 107
Parathyroid Hyperplasia, Report of a Case Without, and With Ureteritis Cystica. Renal Osteitis Fibrosa Superimposed on Senile Osteoporosis. George W. Cottrell 491
Patella, Congenital Dislocation of the. Case Report with History of Four Generations. E. B. Mumford 1083
Patellae, Chondromalacia. Jacob Bronitsky 931
[**Patellectomy.**] Chondromalacia Patellae. Jacob Bronitsky 931
Pathological Diagnostic Service 549, 826
Pathological and Physiological Concepts, The Newer, of Anterior Poliomyelitis and Their Clinical Interpretation. Arthur Steindler 59
Pathological Studies of Intervertebral Discs. [Symposium.] Charles Eckert and Alfred Decker 447
[**Pathology of Rickets.**] Vitamin-A Deficiency and Excess in Relation to Skeletal Growth. S. Burt Wolbach 171
Pathology of Ununited Fractures of the Neck of the Femur, The. [Symposium.] Mary S. Sherman and D. B. Phemister 19
[**Pellegrini-Stieda Disease.**] Ossifications Associated with Chronic Strain of the Tibial Collateral Ligament from Roller-Skating. Edmund W. Klinefelter 237
[**Pelvic Obliquity.**] Fascial Repair for Poliomyelitic Paralysis of the Abdominal Wall in Adults. George T. Wallace and William J. West 1031
[**Pelvis.**] *Cryptococcus neoformans* Infection (Torulosis) of Bone. Report of a Case. Claren H. Jesse 810

PAGE

[**Pelvis.**] Functional Aspects of the Abductor Muscles of the Hip. Verne T. Inman 607
[**Pelvis.**] Osteitis Pubis. Norborne B. Powell 785
[**Pelvis.**] Ununited Epiphysis of the Ischium. Report of a Case. Harry Winkler and Ira H. Rapp 234
[**Penicillin.**] The Use of Absorbable Substances to Obliterate Bone Cavities and as Hemostatic Agents in Operative Procedures on Bones and Joints. Joseph Buchman and John E. Blair 650
[**Perichondrial Ring.**] Organizers and the Growth of Bone. Pierre Lacroix 292
Peripheral Disease of Poliomyelitis, The. John F. Pohl 1027
Peripheral Nerves and Brachial Plexus, Tendinous Reconstruction of the Hand Following Irreparable Injury to the. C. A. Luckey and S. R. McPherson 560
[**Perivascular Sympathectomy.**] Autonomic Control of Synovial-Fluid Reaction. C. I. Reed, Herman Joffe, and Norman R. Joseph 370
[**Peronaeus Longus Tendon.**] Operative Treatment of Paralytic Genu Recurvatum. Clarence H. Heyman 644
Pertrochanteric Fractures of the Femur, Intertrochanteric and, Osteosynthesis of. Hugo Aronsson 637
[**Pertrochanteric Fractures.**] Intertrochanteric Fractures of the Femur. A Survey of Treatment in Traction and by Internal Fixation. Mather Cleveland, David M. Bosworth, and Frederick R. Thompson 1049
Peruvian Society of Orthopaedic and Traumatic Surgery 254
[**pH Values.**] Autonomic Control of Synovial-Fluid Reaction. C. I. Reed, Herman Joffe, and Norman R. Joseph 370
[**Phalanges, Proximal.**] An Improved Skin-Traction Technique for the Fingers. Hartwin A. Schulze 222
Physical Disability, Chronic, A Syndrome Causing. Muscle Fibrodystrophy. Robert Bingham 85
Physiological Concepts, The Newer Pathological and, of Anterior Poliomyelitis and Their Clinical Interpretation. Arthur Steindler 59
Physiological Ossification of Cartilage, II. Chondroitin Sulphate and the. Cartilage and Chondroitin Sulphate. Bengt Sylvén 973
Physiological Role of Chondroitin Sulphate in Cartilage, The, I. Cartilage and Chondroitin Sulphate. Bengt Sylvén 745
Pin Inserter, A Handy. George R. Dawson, Jr. 526
Plate, Blade-, Fixation. Report of a Case. Irwin A. Jaslow 814
Plate, Blade-, for the Treatment of Intertrochanteric Fractures of the Hip, A Modification of the. Robert Glen Bronson 537
[**Plate, Foot.**] Modification of the Denis Browne Splint. Michael Bluhm 248
Plates and Screws, Fixation of Bones by. Leonard T. Peterson 335
Plating, Bone-, Slotted Jaw Forceps for. S. Perry Rogers 1100
Plexus, Brachial, Tendinous Reconstruction of the Hand Following Irreparable Injury to the Peripheral Nerves and. C. A. Luckey and S. R. McPherson 560
Poliomyelitic Paralysis of the Abdominal Wall in Adults, Fascial Repair for. George T. Wallace and William J. West 1031
Poliomyelitis, Anterior, The Newer Pathological and Physiological Concepts of, and Their Clinical Interpretation. Arthur Steindler 59
[**Poliomyelitis.**] Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. A Method of Predicting the Effect. William T. Green and Margaret Anderson 659
Poliomyelitis, External Rotation of the Leg in. Samuel C. Yachnin 415
[**Poliomyelitis.**] Muscle Fibrodystrophy. A Syndrome Causing Chronic Physical Disability. Robert Bingham 85
Poliomyelitis, The Peripheral Disease of. John F. Pohl 1027
Popliteal Fascia, Rupture of the. Howard R. Dudgeon, Jr. 522
[**Popliteus.**] Ossifications Associated with Chronic Strain of the Tibial Collateral Ligament from Roller-Skating. Edmund W. Klinefelter 237
Posterior Dislocation, Recurrent, of the Shoulder. J. C. R. Hindenach 586
Posterolateral Approach to the Femur, The. George H. Marcy 672
Postgraduate Training in Orthopaedic Surgery 1102
Pott's Disease, Tuberculosis of the Joints and, Immobilization with Bone Grafts in the Treatment of. Etienne Sorrel and Madame Sorrel-Dejerine 603
Predicting the Effect, A Method of. Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. William T. Green and Margaret Anderson 659
Pre-Employment Examinations of the Back. Steele F. Stewart 215
Premature Cessation of Epiphyseal Growth about the Knee Joint, Unclassified. Otto C. Kestler 788

PAGE

[**Presidential Address,** The American Orthopaedic Association.] Education and Certification of Orthopaedic Surgeons in the United States. J. Albert Key ... 1

[**President's Address,** The American Orthopaedic Association.] Orthopaedic Surgery and Its Place in the Department of Surgery in Our Modern Medical Schools. LeRoy C. Abbott ... 840

[**Pressure, Lateral.**] Idiopathic Scoliosis. A Method of Correction. Goronwy E. Thomas ... 907

Primary Arterial Injury Complicating Extremity Fractures. Donald W. Hedrick, F. B. Hawkins, and C. O. Townley ... 738

[**Primary Closure of Wounds.**] The Use of Absorbable Substances to Obliterate Bone Cavities and as Hemostatic Agents in Operative Procedures on Bones and Joints. Joseph Buchman and John E. Blair ... 650

Primary Congenital Subluxation of the Hip. Jacques Leveuf ... 149

Primary Lymphangioma of the Ilium. Report of a Case. William H. Bickel and Albert C. Broders ... 517

Program of Therapy, Certain Roentgenographic Manifestations, Secondary Changes in the Extremity, and Some Suggestions for a. Tuberculosis of the Hip in Children. H. R. McCarroll and R. D. Heath 889

[**Prostheses.**] The Functions and Activities of the Committee on Artificial Limbs of the National Research Council. A Preliminary Report. Paul E. Klopsteg ... 538

Prosthesis, Acrylic, Arthroplasty of the Elbow by Replacement of the Distal Portion of the Humerus with an. Richard H. Mellen and George S. Phalen ... 348

Prosthesis for Carpometacarpal Amputations, A. Thomas John Canty ... 801

Proximal Humeral Epiphysis, Humerus Varus Following Birth Injury to the. Leo S. Lucas and Joseph H. Gill ... 367

Pseudarthrosis of the Long Bones. Isidoro Blumenfeld ... 97

[**Pseudarthrosis.**] The Use of Parallel Grafts and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis. End Results in Forty-one Cases. Tom Outland and Oscar Corn ... 163

[**Pubic Ramus, Inferior.**] *Cryptococcus neoformans* Infection (Torulosis) of Bone. Report of a Case. Claran H. Jesse ... 810

Pubis, Osteitis. Norborne B. Powell ... 785

Q

[**Quadriceps.**] Knee Movement Following Fractures of the Femoral Shaft. John Charnley ... 679

R

[**Rachitis.**] Chondrodystrophia Calcificans Congenita. Report of Two Cases. Theodore H. Vinke and F. Paul Duffy ... 509

[**Rachitis.**] Renal Rickets. Report of a Case. J. L. Richardson ... 503

[**Rachitis.**] Vitamin-A Deficiency and Excess in Relation to Skeletal Growth. S. Burt Wolbach ... 171

Radial Nerves and Humerus Fractures, Combined Lesions of. Internal Fixation of Bone and Neurorrhaphy. William K. Massie and Arthur Ecker ... 977

[**Radial-Nerve Paralysis.**] Tendinous Reconstruction of the Hand Following Irreparable Injury to the Peripheral Nerves and Brachial Plexus. C. A. Luckey and S. R. McPherson ... 560

[**Radiolucent Area.**] Painful, Non-Suppurative, Localized Sclerosis of the Long Bones. With a Report of Two Cases. William Mackenzie ... 49

Radius, The Repair of Defects of the, with Fibular Bone Grafts. Richard C. Miller and George S. Phalen ... 629

Reaction, Synovial-Fluid, Autonomic Control of. C. I. Reed, Herman Joffe, and Norman R. Joseph ... 370

Reconstruction of Defects of the Tibia and Femur with Apposing Massive Grafts from the Affected Bone. John J. Flanagan and Henry S. Burem ... 578

Reconstruction, Metacarpal. J. William Littler ... 723

Reconstruction Operation, The Whitman, for Complications of Fracture of the Neck of the Femur. [Symposium.] Arthur Krida ... 310

Reconstruction, Tendinous, of the Hand Following Irreparable Injury to the Peripheral Nerves and Brachial Plexus. C. A. Luckey and S. R. McPherson ... 560

[**Reconstructive Surgery.**] Transposition of Fingers in Severe Injuries of the Hand. Walter C. Graham, J. Barrett Brown, Bradford Cannon, and Daniel C. Riordan ... 998

Recurrent Congenital Club-Foot, Transposition of the Anterior Tibial Tendon in the Treatment of. George J. Garceau and K. R. Manning ... 1044

Recurrent Dislocation of the Shoulder, Diagnosis and Treatment of. Ross Robertson and W. J. Stark ... 797

Recurrent Dislocation of the Shoulder, An Instrument for Use in the Bankart Operation for. George I. Reiss ... 812

Recurrent Posterior Dislocation of the Shoulder. J. C. R. Hindenach ... 582

PAGE

Recurvatum, Genu, Paralytic, Operative Treatment of. Clarence H. Heyman ... 644
Reduction by Open and Closed Operations, With Special Reference to. Fracture-Dislocation of the Thoracolumbar Spine. J. Kenneth Stanger ... 107
Relation of Discoid Meniscus to Cyst Formation and Joint Mechanics, The. J. Kulowski and H. W. Rickett ... 990
Renal Osteitis Fibrosa Superimposed on Senile Osteoporosis. Report of a Case Without Parathyroid Hyperplasia and With Ureteritis Cystica. George W. Cottrell ... 491
Renal Rickets. Report of a Case. J. L. Richardson ... 503
Repair of Defects of the Radius with Fibular Bone Grafts, The. Richard C. Miller and George S. Phalen 629
Repair, Fascial, for Poliomyelitic Paralysis of the Abdominal Wall in Adults. George T. Wallace and William J. West ... 1031
Results of Treatment by Vitallium-Mold Arthroplasty. Complications of Old Fractures of the Neck of the Femur. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law ... 41
[**Retardation of Growth.**] The Effect of Roentgen Irradiation on Epiphyseal Growth. II. Experimental Studies upon the Dog. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr ... 853
Retinoblastoma to the Long Bones, Roentgenographic Features of Metastases of a. Report of a Case. Ralph E. Rowen ... 805
Retractor, Dual-Purpose, An Efficient. Peter-Cyrus Rizzo ... 240
Retractor for Intervertebral-Disc Surgery, An Improved. Michael Skovron ... 247
(**Reverse Intertrochanteric**), **Oblique Subcervical, Fractures** of the Femur. Louis T. Wright ... 707
Review of the Evolution of the Orthopaedic Branch of Surgery in New York City, A. Royal Whitman ... 250
[**Rib.**] Osteoid Osteoma. Ignacio Ponseti and Chester K. Barta ... 767
[**Rickets, Experimental.**] Vitamin-A Deficiency and Excess in Relation to Skeletal Growth. S. Burt Wolbach ... 171
[**Rickets, Foetal.**] Chondrodystrophia Calcificans Congenita. Report of Two Cases. Theodore H. Vinke and F. Paul Duffy ... 509
Rickets, Renal. Report of a Case. J. L. Richardson ... 503
[**Ring, Perichondrial.**] Organizers and the Growth of Bone. Pierre Lacroix ... 292
[**Risser Turnbuckle Jacket.**] The Use of Parallel Grafts and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis. End Results in Forty-one Cases. Tom Outland and Oscar Corn ... 163
Roentgen Irradiation, The Effect of, on Epiphyseal Growth. II. Experimental Studies upon the Dog. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr ... 853
Roentgenographic Features of Metastases of a Retinoblastoma to the Long Bones. Report of a Case. Ralph E. Rowen ... 805
Roentgenographic Manifestations, Certain, Secondary Changes in the Extremity, and Some Suggestions for a Program of Therapy. Tuberculosis of the Hip in Children. H. R. McCarroll and R. D. Heath ... 889
Roller-Skating, Ossifications Associated with Chronic Strain of the Tibial Collateral Ligament from. Edmund W. Klinefelter ... 237
Rotating Stirrup, An Improved, for Use in the Treatment of Fractures of the Femur with Skeletal Traction. Gerald G. Gill ... 531
Rotation and Bone Graft, for Ununited Fractures of the Neck of the Femur, The High Geometric Osteotomy, with. A Preliminary Report. James A. Dickson ... 1005
Rotation, External, of the Leg in Poliomyelitis. Samuel C. Yachnin ... 415
Rotation, External, of Limbs in Traction, A Method of Offsetting the. Robert M. Rose ... 535
[**Rotation Sprain.**] The Diagnosis of Meniscus Injuries. Some New Clinical Methods. A. Graham Apley 78
Rupture of the Popliteal Fascia. Howard R. Dudgeon, Jr. ... 522
Ruptured Intervertebral Disc and Sciatic Pain. [Symposium.] Joseph S. Barr ... 429

S

Sacral Vertebrae, First, The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and. Backward Displacement of Fifth Lumbar Vertebra in Degenerative Disc Disease. Gilbert H. Fletcher ... 1019
[**Sacrospinalis, Contracture of.**] Muscle Fibrodystrophy. A Syndrome Causing Chronic Physical Disability. Robert Bingham ... 85
[**Sacrum.**] Laminectomy and Foraminotomy with Chip Fusion. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Henry Briggs and Sidney Keats ... 328

PAGE

Salmonella Infection Involving the Knee Joint. Report of a Case. Theodore H. Vinke and Harold F. Downing ... 232
***Salmonella typhimurium*,** Osteomyelitis Caused by. Ruth F. Krauss ... 227
Sarah Mellon Scaife Foundation ... 1101
Sarcoma, Bone, Survival in. Harry Platt ... 6
[**Sarcoma.**] Malignant Neoplasms Originating in Synovial Tissues (Synoviomata). A Study of Thirty-two Specimens Registered at the Army Institute of Pathology During the War-Time Period, 1941–1945. Granville A. Bennett ... 259
[**Scaphoid.**] The Treatment of Injuries to the Tarsal Navicular. A. Jackson Day ... 359
[**Scapula.**] Recurrent Posterior Dislocation of the Shoulder. J. C. R. Hindenach ... 582
Sciatic Pain, Low-Back Pain and, Associated with Spondylolisthesis, Operative Treatment for the Relief of. Laminectomy and Foraminotomy with Chip Fusion. Henry Briggs and Sidney Keats ... 328
[**Sciatic Pain.**] Observations on Obscure Mechanisms of Nerve-Root Compression with a Diagnostic Tap Test. Report of Two Cases. Henry Briggs and Sidney Keats ... 758
Sciatic Pain, Ruptured Intervertebral Disc and. [Symposium.] Joseph S. Barr ... 429
Sciatica, The Disc Factor in Low-Back Pain With or Without. [Symposium.] J. Grafton Love ... 438
Sclerosis, Painful, Non-Suppurative, Localized, of the Long Bones. With a Report of Two Cases. William Mackenzie ... 49
Scoliosis, Idiopathic. A Method of Correction. Goronwy E. Thomas ... 907
Scoliosis, Idiopathic, The Use of Parallel Grafts and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of. End Results in Forty-one Cases. Tom Outland and Oscar Corn ... 163
Screw Holder and Screw Driver, A Motor-Driven. George R. Dawson, Jr. ... 527
Screws, Plates and, Fixation of Bones by. Leonard T. Peterson ... 335
[**Screw Pressure Pads.**] Idiopathic Scoliosis. A Method of Correction. Goronwy E. Thomas ... 907
Screw or Tie Fixation, Treatment of Ununited Fractures by Onlay Bone Grafts without, and without Breaking down of the Fibrous Union. Dallas B. Phemister ... 946
Secondary Changes in the Extremity, Certain Roentgenographic Manifestations, and Some Suggestions for a Program of Therapy. Tuberculosis of the Hip in Children. H. R. McCarroll and R. D. Heath ... 889
Secondary Closure of Wounds Associated with Compound Fractures. James O. Barr ... 376
[**Semilunar Cartilage.**] The Diagnosis of Meniscus Injuries. Some New Clinical Methods. A. Graham Apley ... 78
[**Semilunar Cartilage.**] The Relation of Discoid Meniscus to Cyst Formation and Joint Mechanics. J. Kulowski and H. W. Rickett ... 990
Senile Osteoporosis, Renal Osteitis Fibrosa Superimposed on. Report of a Case Without Parathyroid Hyperplasia and With Ureteritis Cystica. George W. Cottrell ... 491
Sensory Patterns in the Localization of Disc Lesions. (Discussion: Symposium on the Intervertebral Disc.) Barnes Woodhall ... 470
[**Septicaemia.**] Osteomyelitis Caused by *Salmonella typhimurium*. Ruth F. Krauss ... 227
Septum, Supratrochlear, Osteochondritis of the. Report of a Case. W. T. Ross ... 514
Shattering Fractures, Intramedullary Onlay Grafts for Defects Resulting from. Frank G. Murphy ... 1068
[**Shortening of Extremities.**] The Effect of Roentgen Irradiation on Epiphyseal Growth. II. Experimental Studies upon the Dog. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr ... 853
[**Shortening of Humerus.**] Internal Fixation of Bone and Neurorrhaphy. Combined Lesions of Radial Nerves and Humerus Fractures. William K. Massie and Arthur Ecker ... 977
Shoulder, Diagnosis and Treatment of Recurrent Dislocation of the. Ross Robertson and W. J. Stark 797
[**Shoulder.**] Humerus Varus Following Birth Injury to the Proximal Humeral Epiphysis. Leo S. Lucas and Joseph H. Gill ... 367
Shoulder, An Instrument for Use in the Bankart Operation for Recurrent Dislocation of the. George I. Reiss ... 812
Shoulder, Recurrent Posterior Dislocation of the. J. C. R. Hindenach ... 582
Significance, The Formation and, of Vertebral Ankylosis in Tuberculous Spines. José Puig Guri ... 136
Simple Leg Holder for Hip-Nailing Operations, A. Edward Parnall ... 536
Skating, Roller-, Ossifications Associated with Chronic Strain of the Tibial Collateral Ligament from. Edmund W. Klinefelter ... 237
Skeletal Growth, Vitamin-A Deficiency and Excess in Relation to. S. Burt Wolbach ... 171
[**Skeletal Maturity.**] Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. A Method of Predicting the Effect. William T. Green and Margaret Anderson ... 659

PAGE

Skeletal Traction, An Improved Rotating Stirrup for Use in the Treatment of Fractures of the Femur with. Gerald G. Gill ... 531
Skin-Plastic Operation, Treatment by. Painful Interdigital Clavus (Soft Corn). Edward J. Haboush and Robert V. Martin ... 756
Skin-Traction Technique for the Fingers, An Improved. Hartwin A. Schulze ... 222
Sling for Use in Legg-Perthes Disease, A. Clarence H. Synder ... 524
Slotted Jaw Forceps for Bone-Plating. S. Perry Rogers ... 1100
Sociedad Peruana de Ortopedia y Traumatología ... 254
Société Internationale de Chirurgie Orthopédique et de Traumatologie ... 254
(Soft Corn), Painful Interdigital Clavus. Treatment by Skin-Plastic Operation. Edward J. Haboush and Robert V. Martin ... 756
Soft Tissues, Calcareous Deposits in, about the Proximal Interphalangeal Joint of the Index Finger. Report of a Case. Anthony F. DePalma ... 808
[Soleus.] Ossifications Associated with Chronic Strain of the Tibial Collateral Ligament from Roller-Skating. Edmund W. Klinefelter ... 237
Some Surgical Aspects of Osteoid Osteoma. George T. Wallace ... 777
Spina Bifida Aperta and Congenital Stricture of the Spinal Canal. Münir A. Sarpyener ... 817
[Spinal Cord.] The Peripheral Disease of Poliomyelitis. John F. Pohl ... 1027
[Spindle-Cell Sarcoma.] Survival in Bone Sarcoma. Harry Platt ... 6
[Spine.] An Analysis and Differentiation of Low-Back Pain in Relation to the Disc Factor. [Symposium.] Arthur Steindler ... 455
[Spine.] Anatomicophysiological Aspects of Injuries to the Intervertebral Disc. [Symposium.] Verne T. Inman and J. B. deC. M. Saunders ... 461
[Spine.] Backward Displacement of Fifth Lumbar Vertebra in Degenerative Disc Disease. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae. Gilbert H. Fletcher ... 1019
[Spine.] The Disc Factor in Low-Back Pain With or Without Sciatica. [Symposium.] J. Grafton Love 438
[Spine.] End-Result Study of the Intervertebral Disc. [Symposium.] Raymond E. Lenhard ... 425
[Spine Fusion.] The Evaluation of Cortical and Cancellous Bone as Grafting Material. A Clinical and Experimental Study. LeRoy C. Abbott, Edwin R. Schottstaedt, John B. deC. M. Saunders, and Frederic C. Bost ... 381
[Spine Fusion.] The Use of Parallel Grafts and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis. End Results in Forty-one Cases. Tom Outland and Oscar Corn ... 163
[Spine.] Idiopathic Scoliosis. A Method of Correction. Goronwy E. Thomas ... 907
[Spine.] Immobilization with Bone Grafts in the Treatment of Tuberculosis of the Joints and Pott's Disease. Etienne Sorrel and Madame Sorrel-Dejerine ... 603
[Spine.] An Improved Retractor for Intervertebral-Disc Surgery. Michael Skovron ... 247
[Spine.] Laminectomy and Foraminotomy with Chip Fusion. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Henry Briggs and Sidney Keats ... 328
[Spine.] Observations on Obscure Mechanisms of Nerve-Root Compression with a Diagnostic Tap Test. Report of Two Cases. Henry Briggs and Sidney Keats ... 758
[Spine.] Pathological Studies of Intervertebral Discs. [Symposium.] Charles Eckert and Alfred Decker 447
[Spine.] Ruptured Intervertebral Disc and Sciatic Pain. [Symposium.] Joseph S. Barr ... 429
[Spine.] Symposium on the Intervertebral Disc. Introduction. Arthur G. Davis ... 424
Spine, Thoracolumbar, Fracture-Dislocation of the. With Special Reference to Reduction by Open and Closed Operations. J. Kenneth Stanger ... 107
Spines, Tuberculous, The Formation and Significance of Vertebral Ankylosis in. José Puig Guri ... 136
[Spine.] The Use of Parallel Grafts and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis. End Results in Forty-one Cases. Tom Outland and Oscar Corn ... 163
Spine, Wedge Osteotomy of the, with Bilateral Intervertebral Foraminotomy. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine. Henry Briggs, Sidney Keats, and Philip T. Schlesinger ... 1075
Splint, Denis Browne, Modification of the. Michael Bluhm ... 248
[Spondylitis, Tuberculous.] The Formation and Significance of Vertebral Ankylosis in Tuberculous Spines. José Puig Guri ... 136
[Spondylitis.] Wedge Osteotomy of the Spine with Bilateral Intervertebral Foraminotomy. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine. Henry Briggs, Sidney Keats, and Philip T. Schlesinger ... 1075

PAGE

Spondylolisthesis, Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with. Laminectomy and Foraminotomy with Chip Fusion. Henry Briggs and Sidney Keats 328
[Sprain, Rotation.] The Diagnosis of Meniscus Injuries. Some New Clinical Methods. A. Graham Apley 78
Spreader, Cast, Modification of. Fred A. Polesky 249
[Stabilization of the Knee.] Operative Treatment of Paralytic Genu Recurvatum. Clarence H. Heyman 644
[Staining, Vital.] Absorption of Trypan Blue from the Human Knee Joint. R. L. deC. H. Saunders and E. Gordon Young 301
[Stevedoring.] Pre-Employment Examinations of the Back. Steele F. Stewart 215
[Stiffness, Knee.] Knee Movement Following Fractures of the Femoral Shaft. John Charnley 679
[Stimulation, Electrical.] Internal Fixation of Bone and Neurorrhaphy. Combined Lesions of Radial Nerves and Humerus Fractures. William K. Massie and Arthur Ecker 977
[Stimulation of Growth.] The Effect of Roentgen Irradiation on Epiphyseal Growth. II. Experimental Studies upon the Dog. John A. Reidy, James R. Lingley, Edward A. Gall, and Joseph S. Barr .. 853
Stimulator, A Miniature Galvanic. James E. Bateman 241
[Stippled Epiphyses.] Chondrodystrophia Calcificans Congenita. Report of Two Cases. Theodore H. Vinke and F. Paul Duffy 509
Stirrup, Rotating, An Improved, for Use in the Treatment of Fractures of the Femur with Skeletal Traction. Gerald G. Gill 531
Strain, Chronic, of the Tibial Collateral Ligament from Roller-Skating, Ossifications Associated with. Edmund W. Klinefelter 237
Stricture, Congenital, of the Spinal Canal, Spina Bifida Aperta and. Münir A. Sarpyener 817
[Stump.] A Prosthesis for Carpometacarpal Amputations. Thomas John Canty 801
Subcervical, Oblique (Reverse Intertrochanteric), Fractures of the Femur. Louis T. Wright 707
Subluxation of the Hip, Primary Congenital. Jacques Leveuf 149
Subperiosteal Giant-Cell Tumor. Report of a Case. John T. Hodgen and Charles H. Frantz 781
[Subtrochanteric Fractures.] Blade-Plate Fixation. Report of a Case. Irwin A. Jaslow 814
[Subtrochanteric Fractures.] Intertrochanteric Fractures of the Femur. A Survey of Treatment in Traction and by Internal Fixation. Mather Cleveland, David M. Bosworth, and Frederick R. Thompson 1049
Sulphate, Chondroitin, Cartilage and. I. The Physiological Role of Chondroitin Sulphate in Cartilage. Bengt Sylvén 745
Sulphate, Chondroitin, Cartilage and. II. Chondroitin Sulphate and the Physiological Ossification of Cartilage. Bengt Sylvén 973
[Suprapubic Prostatectomy, Complication of.] Osteitis Pubis. Norborne B. Powell 785
Supratrochlear Septum, Osteochondritis of the. Report of a Case. W. T. Ross 514
Surgery, Department of, in Our Modern Medical Schools, Orthopaedic Surgery and Its Place in the. [President's Address. The American Orthopaedic Association.] LeRoy C. Abbott 840
Surgery, Hand. Presidential Address. [American Society for Surgery of the Hand.] Sterling Bunnell. 824
Surgical Aspects of Osteoid Osteoma, Some. George T. Wallace 777
Survival in Bone Sarcoma. Harry Platt 6
[Suture Carrier.] An Instrument for Use in the Bankart Operation for Recurrent Dislocation of the Shoulder. George I. Reiss 812
[Sympathectomy, Perivascular.] Autonomic Control of Synovial-Fluid Reaction. C. I. Reed, Herman Joffe, and Norman R. Joseph 370
[Symphysis Pubis.] Osteitis Pubis. Norborne B. Powell 785
Symposium on the Complications of Old Fractures of the Neck of the Femur and Their Treatment. [The American Orthopaedic Association.]
Boyd, H. B., and George, I. L. 13
Gill, A. Bruce 305
Krida, Arthur 310
Sherman, Mary S., and Phemister, D. B. 19
Smith-Petersen, M. N.; Larson, Carroll B.; Aufranc, Otto E.; and Law, W. Alexander 41
Wilson, Philip D. 313
Discussion
Badgley, Carl E. 326
Blount, Walter P. 822
Colonna, Paul C. 327
Platt, Harry 326
Symposium on the Intervertebral Disc. [The American Orthopaedic Association.]
Barr, Joseph S. 429

PAGE
Davis, Arthur G. ... 424
Eckert, Charles, and Decker, Alfred ... 447
Inman, Verne T., and Saunders, J. B. deC. M. ... 461
Lenhard, Raymond E. ... 425
Love, J. Grafton ... 438
Steindler, Arthur ... 455
Discussion
Hallock, Halford ... 475
Mixter, William Jason ... 468
Willis, Theodore A. ... 469
Woodhall, Barnes ... 470
Symposium on the Intervertebral Disc. Introduction. Arthur G. Davis ... 424
Syndrome Causing Chronic Physical Disability, A. Muscle Fibrodystrophy. Robert Bingham ... 85
[**Synosteosis, Vertebral.**] The Formation and Significance of Vertebral Ankylosis in Tuberculous Spines. José Puig Guri ... 136
Synovial-Fluid Reaction, Autonomic Control of. C. I. Reed, Herman Joffe, and Norman R. Joseph ... 370
Synovial Tissues (Synoviomata), Malignant Neoplasms Originating in. A Study of Thirty-two Specimens Registered at the Army Institute of Pathology During the War-Time Period, 1941–1945. Granville A. Bennett ... 259

T

[**Talipes Calcaneovalgus.**] Chondrodystrophia Calcificans Congenita. Report of Two Cases. Theodore H. Vinke and F. Paul Duffy ... 509
[**Talipes Equinovarus.**] Modification of the Denis Browne Splint. Michael Bluhm ... 248
[**Talipes.**] Transposition of the Anterior Tibial Tendon in the Treatment of Recurrent Congenital Club-Foot. George J. Garceau and K. R. Manning ... 1044
[**Talonavicular Joint.**] The Treatment of Injuries to the Tarsal Navicular. A. Jackson Day ... 359
[**Talus.**] Fracture-Dislocation of the Ankle with Fixed Displacement of the Fibula Behind the Tibia. David M. Bosworth ... 130
Talus, Osteochondritis Dissecans of the. R. Beverley Ray and Edward J. Coughlin, Jr. ... 697
[**Talus.**] Tibiotarsal Arthrodesis after Astragalectomy. A Report of Eight Cases. J. C. Carmack and Halford Hallock ... 476
Tap Test, Diagnostic, Observations on Obscure Mechanisms of Nerve-Root Compression with a. Report of Two Cases. Henry Briggs and Sidney Keats ... 758
Tardy Paralysis of the Ulnar Nerve, Diagnosis and Treatment of. Based on a Study of 100 Cases. James R. Gay and J. Grafton Love ... 1087
Tarsal Navicular, The Treatment of Injuries to the. A. Jackson Day ... 359
[**Tarsus.**] Tibiotarsal Arthrodesis after Astragalectomy. A Report of Eight Cases. J. C. Carmack and Halford Hallock ... 476
[**Teaching.**] Orthopaedic Surgery and Its Place in the Department of Surgery in Our Modern Medical Schools. [President's Address. The American Orthopaedic Association.] LeRoy C. Abbott ... 840
Technique, An Improved Skin-Traction, for the Fingers. Hartwin A. Schulze ... 222
Tendinous Reconstruction of the Hand Following Irreparable Injury to the Peripheral Nerves and Brachial Plexus. C. A. Luckey and S. R. McPherson ... 560
[**Tendo Calcaneus.**] Xanthoma of the Achilles Tendon. Morris S. Friedman ... 760
Tendon, Achilles, Xanthoma of the. Morris S. Friedman ... 760
Tendon, Flexor-, Grafts to the Finger and Thumb. Walter C. Graham ... 553
[**Tendon, Transfer of.**] The Transfer of Wrist Extensor Muscles to Restore or Reinforce Flexion Power of the Fingers and Opposition of the Thumb. George S. Phalen and Richard C. Miller ... 993
[**Tendon, Transplantation of.**] Transposition of Fingers in Severe Injuries of the Hand. Walter C. Graham, J. Barrett Brown, Bradford Cannon, and Daniel C. Riordan ... 998
Tendon, Transposition of the Anterior Tibial, in the Treatment of Recurrent Congenital Club-Foot. George J. Garceau and K. R. Manning ... 1044
[**Tenodesis.**] Operative Treatment of Paralytic Genu Recurvatum. Clarence H. Heyman ... 644
[**Tests, Diagnostic.**] The Diagnosis of Meniscus Injuries. Some New Clinical Methods. A. Graham Apley ... 78
Test, Diagnostic Tap, Observations on Obscure Mechanisms of Nerve-Root Compression with a. Report of Two Cases. Henry Briggs and Sidney Keats ... 758
[**Thigh.**] The Posterolateral Approach to the Femur. George H. Marcy ... 676
Thoracolumbar Spine, Fracture-Dislocation of the. With Special Reference to Reduction by Open and Closed Operations. J. Kenneth Stanger ... 107

PAGE

Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis, The Use of Parallel Grafts and of Two-Stage and. End Results in Forty-one Cases. Tom Outland and Oscar Corn 163

[**Thrombin.**] The Use of Absorbable Substances to Obliterate Bone Cavities and as Hemostatic Agents in Operative Procedures on Bones and Joints. Joseph Buchman and John E. Blair 650

Thumb, Flexor-Tendon Grafts to the Finger and. Walter C. Graham 553

[**Thumb, Reconstruction of.**] Transposition of Fingers in Severe Injuries of the Hand. Walter C. Graham, J. Barrett Brown, Bradford Cannon, and Daniel C. Riordan 998

Thumb, The Transfer of Wrist Extensor Muscles to Restore or Reinforce Flexion Power of the Fingers and Opposition of the. George S. Phalen and Richard C. Miller 993

[**Tibia.**] Experiences with Epiphyseal Arrest in Correcting Discrepancies in Length of the Lower Extremities in Infantile Paralysis. A Method of Predicting the Effect. William T. Green and Margaret Anderson 659

Tibia and Femur, Reconstruction of Defects of the, with Apposing Massive Grafts from the Affected Bone. John J. Flanagan and Henry S. Burem 587

Tibia, Fracture-Dislocation of the Ankle with Fixed Displacement of the Fibula Behind the. David M. Bosworth 130

Tibial Collateral Ligament, Ossifications Associated with Chronic Strain of the, from Roller-Skating. Edmund W. Klinefelter 237

Tibial Tendon, Anterior, Transposition of the, in the Treatment of Recurrent Congenital Club-Foot. George J. Garceau and K. R. Manning 1044

[**Tibia.**] Unclassified Premature Cessation of Epiphyseal Growth about the Knee Joint. Otto C. Kestler 788

Tibiotarsal Arthrodesis after Astragalectomy. A Report of Eight Cases. J. C. Carmack and Halford Hallock 476

Tie Fixation, Screw or, Treatment of Ununited Fractures by Onlay Bone Grafts without, and without Breaking down of the Fibrous Union. Dallas B. Phemister 946

[**Torn Meniscus.**] Chondromalacia Patellae. Jacob Bronitsky 931

[**Torque.**] Functional Aspects of the Abductor Muscles of the Hip. Verne T. Inman 607

[**Torsion.**] External Rotation of the Leg in Poliomyelitis. Samuel C. Yachnin 415

(**Torulosis**) of Bone, *Cryptococcus neoformans* Infection. Report of a Case. Claran H. Jesse 810

[**Traction, Longitudinal.**] Idiopathic Scoliosis. A Method of Correction. Goronwy E. Thomas 907

Traction, A Method of Offsetting the External Rotation of Limbs in. Robert M. Rose 535

[**Traction, 90-90-90.**] The Posterolateral Approach to the Femur. George H. Marcy 676

Traction, Skeletal, An Improved Rotating Stirrup for Use in the Treatment of Fractures of the Femur with. Gerald G. Gill 531

Traction, Skin-, Technique for the Fingers, An Improved. Hartwin A. Schulze 222

Traction, A Survey of Treatment in, and by Internal Fixation. Intertrochanteric Fractures of the Femur. Mather Cleveland, David M. Bosworth, and Frederick R. Thompson 1049

Transfer of Wrist Extensor Muscles to Restore or Reinforce Flexion Power of the Fingers and Opposition of the Thumb, The. George S. Phalen and Richard C. Miller 993

[**Transplantation, Fascial.**] Fascial Repair for Poliomyelitic Paralysis of the Abdominal Wall in Adults. George T. Wallace and William J. West 1031

[**Transplantation.**] Tendinous Reconstruction of the Hand Following Irreparable Injury to the Peripheral Nerves and Brachial Plexus. C. A. Luckey and S. R. McPherson 560

Transposition of the Anterior Tibial Tendon in the Treatment of Recurrent Congenital Club-Foot. George J. Garceau and K. R. Manning 1044

Transposition of Fingers in Severe Injuries of the Hand. Walter C. Graham, J. Barrett Brown, Bradford Cannon, and Daniel C. Riordan 998

[**Traumatic Chondritis.**] Chondromalacia Patellae. Jacob Bronitsky 931

Treatment, Diagnosis and, of Tardy Paralysis of the Ulnar Nerve. Based on a Study of 100 Cases. James R. Gay and J. Grafton Love 1087

Treatment of Fractures of the Femur in a Field Hospital, The. Ivar Alvik 422

Treatment of Fractures of the Femur with Skeletal Traction, An Improved Rotating Stirrup for Use in the. Gerald G. Gill 531

Treatment of Injuries to the Tarsal Navicular, The. A. Jackson Day 359

Treatment of Intertrochanteric Fractures of the Hip, A Modification of the Blade-Plate for the. Robert Glen Bronson 537

Treatment, Operative, of Paralytic Genu Recurvatum. Clarence H. Heyman 644

Treatment, Operative, for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Laminectomy and Foraminotomy with Chip Fusion. Henry Briggs and Sidney Keats 328

Treatment of Recurrent Dislocation of the Shoulder, Diagnosis and. Ross Robertson and W. J. Stark 797

PAGE

Treatment by Skin-Plastic Operation. Painful Interdigital Clavus (Soft Corn). Edward J. Haboush and Robert V. Martin ... 756

Treatment, A Survey of, in Traction and by Internal Fixation. Intertrochanteric Fractures of the Femur. Mather Cleveland, David M. Bosworth, and Frederick R. Thompson ... 1049

Treatment of Tuberculosis of the Joint and Pott's Disease, Immobilization with Bone Grafts in the. Etienne Sorrel and Madame Sorrel-Dejerine ... 603

Treatment of Ununited Fractures of the Neck of the Femur, Trochanteric Arthroplasty in the. [Symposium.] Philip D. Wilson ... 313

Treatment of Ununited Fractures by Onlay Bone Grafts without Screw or Tie Fixation and without Breaking down of the Fibrous Union. Dallas B. Phemister ... 946

Treatment by Vitallium-Mold Arthroplasty, Results of. Complications of Old Fractures of the Neck of the Femur. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law ... 41

Trochanteric Arthroplasty in the Treatment of Ununited Fractures of the Neck of the Femur. [Symposium.] Philip D. Wilson ... 313

[**Trochanteric Graft.**] Fusion of the Hip in Children. The Chandler Method. Charles N. Pease ... 874

Trypan Blue, Absorption of, from the Human Knee Joint. R. L. deC. H. Saunders and E. Gordon Young ... 301

[**Tube, Metallic.**] Primary Arterial Injury Complicating Extremity Fractures. Donald W. Hedrick, F. B. Hawkins, and C. O. Townley ... 738

[**Tuberculosis.**] Arthrodesis of the Elbow. A Preliminary Report of a New Operation. Moses Gellman 850

[**Tuberculosis.**] Fusion of the Hip in Children. The Chandler Method. Charles N. Pease ... 874

Tuberculosis of the Hip in Children. Certain Roentgenographic Manifestations, Secondary Changes in the Extremity, and Some Suggestions for a Program of Therapy. H. R. McCarroll and R. D. Heath ... 889

Tuberculosis of the Joints and Pott's Disease, Immobilization with Bone Grafts in the Treatment of. Etienne Sorrel and Madame Sorrel-Dejerine ... 603

Tuberculous Spines, The Formation and Significance of Vertebral Ankylosis in. José Puig Guri ... 136

[**Tumors.**] Malignant Neoplasms Originating in Synovial Tissues (Synoviomata). A Study of Thirty-two Specimens Registered at the Army Institute of Pathology During the War-Time Period, 1941–1945. Granville A. Bennett ... 259

[**Tumor.**] Primary Lymphangioma of the Ilium. Report of a Case. William H. Bickel and Albert C. Broders ... 517

[**Tumor.**] Roentgenographic Features of Metastases of a Retinoblastoma to the Long Bones. Report of a Case. Ralph E. Rowen ... 805

Tumor, Subperiosteal Giant-Cell. Report of a Case. John T. Hodgen and Charles H. Frantz ... 781

[**Tumor.**] Survival in Bone Sarcoma. Harry Platt ... 6

[**Tumor.**] Xanthoma of the Achilles Tendon. Morris S. Friedman ... 766

[**Turnbuckle Jacket, Risser.**] The Use of Parallel Grafts and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis. End Results in Forty-one Cases. Tom Outland and Oscar Corn ... 163

U

[**Ulna, Resection of.**] The Repair of Defects of the Radius with Fibular Bone Grafts. Richard C. Miller and George S. Phalen ... 629

Ulnar Nerve, Diagnosis and Treatment of Tardy Paralysis of the. Based on a Study of 100 Cases. James R. Gay and J. Grafton Love ... 1087

[**Ulnar-Nerve Paralysis.**] Tendinous Reconstruction of the Hand Following Irreparable Injury to the Peripheral Nerves and Brachial Plexus. C. A. Luckey and S. R. McPherson ... 560

Unclassified Premature Cessation of Epiphyseal Growth about the Knee Joint. Otto C. Kestler ... 788

Union, Fibrous, Treatment of Ununited Fractures by Onlay Bone Grafts without Screw or Tie Fixation and without Breaking down of the. Dallas B. Phemister ... 946

University of Rochester School of Medicine and Dentistry, The ... 544

Unreduced Bennett's Fracture, An Operation for Old. John R. Vasko ... 753

Ununited Epiphysis of the Ischium. Report of a Case. Harry Winkler and Ira H. Rapp ... 234

Ununited Fractures, Arthrodesis of the Hip for. [Symposium.] A. Bruce Gill ... 305

[**Ununited Fractures.**] Bone Grafts. An End-Result Study of the Healing Time. W. A. Bishop, Jr., Richard C. Stauffer, and Alvin L. Swenson ... 961

[**Ununited Fractures.**] Intramedullary Onlay Grafts for Defects Resulting from Shattering Fractures. Frank G. Murphy ... 1068

PAGE

Ununited Fractures of the Neck of the Femur, The High Geometric Osteotomy, with Rotation and Bone Graft, for. A Preliminary Report. James A. Dickson 1005

Ununited Fractures of the Neck of the Femur, The Pathology of. [Symposium.] Mary S. Sherman and D. B. Phemister 19

Ununited Fractures of the Neck of the Femur, Trochanteric Arthroplasty in the Treatment of. [Symposium.] Philip D. Wilson 313

Ununited Fractures, Treatment of, by Onlay Bone Grafts without Screw or Tie Fixation and without Breaking down of the Fibrous Union. Dallas B. Phemister 946

Ureteritis Cystica, Report of a Case Without Parathyroid Hyperplasia and With. Renal Osteitis Fibrosa Superimposed on Senile Osteoporosis. George W. Cottrell 491

Use of Absorbable Substances to Obliterate Bone Cavities and as Hemostatic Agents in Operative Procedures on Bones and Joints, The. Joseph Buchman and John E. Blair 650

Use of Homogenous Bone Grafts, The. A Preliminary Report on the Bone Bank. Leonard F. Bush .. 620

Use of Parallel Grafts and of Two-Stage and Three-Stage Interlocking Grafts in the Treatment of Idiopathic Scoliosis, The. End Results in Forty-one Cases. Tom Outland and Oscar Corn 163

V

Varus, Humerus, Following Birth Injury to the Proximal Humeral Epiphysis. Leo S. Lucas and Joseph H. Gill 367

Vertebra, Fifth Lumbar, Backward Displacement of, in Degenerative Disc Disease. The Significance of the Difference in Anteroposterior Diameters of the Fifth Lumbar and First Sacral Vertebrae. Gilbert H. Fletcher 1019

[**Vertebrae.**] Laminectomy and Foraminotomy with Chip Fusion. Operative Treatment for the Relief of Low-Back Pain and Sciatic Pain Associated with Spondylolisthesis. Henry Briggs and Sidney Keats 328

[**Vertebra.**] Observations on Obscure Mechanisms of Nerve-Root Compression with a Diagnostic Tap Test. Report of Two Cases. Henry Briggs and Sidney Keats 758

[**Vertebrae,** Rotation of the.] Idiopathic Scoliosis. A Method of Correction. Gŏronwy E. Thomas ... 907

Vertebral Ankylosis, The Formation and Significance of, in Tuberculous Spines. José Puig Guri 136

[**Vertebral Grafts.**] Immobilization with Bone Grafts in the Treatment of Tuberculosis of the Joints and Pott's Disease. Etienne Sorrel and Madame Sorrel-Dejerine 603

Vitallium-Mold Arthroplasty, Results of Treatment by. Complications of Old Fractures of the Neck of the Femur. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law 41

Vitamin-A Deficiency and Excess in Relation to Skeletal Growth. S. Burt Wolbach 171

[**Vitamin-C.**] Vitamin-A Deficiency and Excess in Relation to Skeletal Growth. S. Burt Wolbach ... 171

[**Vitamin-D.**] Vitamin-A Deficiency and Excess in Relation to Skeletal Growth. S. Burt Wolbach ... 171

[**Vital Staining.**] Absorption of Trypan Blue from the Human Knee Joint. R. L. deC. H. Saunders and E. Gordon Young 301

W

[**Weak Feet.**] Floor Pad for Foot-Exercising. Maurice H. Herzmark 1098

[**Wedge Osteotomy.**] Humerus Varus Following Birth Injury to the Proximal Humeral Epiphysis. Leo S. Lucas and Joseph H. Gill 367

Wedge Osteotomy of the Spine with Bilateral Intervertebral Foraminotomy. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine. Henry Briggs, Sidney Keats, and Philip T. Schlesinger 1075

Whitman Reconstruction Operation for Complications of Fracture of the Neck of the Femur, The. [Symposium.] Arthur Krida 310

[**Whitman Reconstruction Operation, Modified.**] Complications of Old Fractures of the Neck of the Femur. Results of Treatment by Vitallium-Mold Arthroplasty. [Symposium.] M. N. Smith-Petersen, Carroll B. Larson, Otto E. Aufranc, and W. Alexander Law 41

[**Wilson Plate.**] Wedge Osteotomy of the Spine with Bilateral Intervertebral Foraminotomy. Correction of Flexion Deformity in Five Cases of Ankylosing Arthritis of the Spine. Henry Briggs, Sidney Keats, and Philip T. Schlesinger 1075

Wounds Associated with Compound Fractures, Secondary Closure of. James O. Barr 376

[**Wrist.**] A Prosthesis for Carpometacarpal Amputations. Thomas John Canty 801

Wrist Extensor Muscles, The Transfer of, to Restore or Reinforce Flexion Power of the Fingers and Opposition of the Thumb. George S. Phalen and Richard C. Miller 993

X

Xanthoma of the Achilles Tendon. Morris S. Friedman 760

AGE
005
19
313
946
491
650
620
163
367
019
328
758
907
136
603
41
171
171
171
301
098
367
075
310
41
075
376
801
993
760
ERY